

SECTION XI.

MORBIDITY, OR SICK RATES.

The attempt made in the Tenth Census to obtain on the schedule for the living population the number of those who were, on June 1, so sick or disabled as to be unable to pursue their ordinary occupations was renewed in the Eleventh Census, and a large amount of data was thus obtained, but it has only been found possible to compile these data for a few of the states.

The following table shows, for the northeastern states, namely, Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, and Delaware, being part of the registration states; and also for certain southern states, namely, Virginia, Tennessee, and Alabama, and for the sum of each group, the total population, the number reported as suffering from diseases and recent accidents, and the ratio per 100,000 of population:

STATES.	Population.	Sick and disabled.	Ratio.
Northeastern states.....	12,312,024	207,302	1,684
Maine.....	661,086	8,595	1,291
New Hampshire.....	376,530	9,854	2,017
Vermont.....	332,422	10,942	3,292
Massachusetts.....	2,238,943	33,400	1,492
Connecticut.....	746,258	13,270	1,778
Rhode Island.....	345,500	7,213	2,088
New York.....	5,997,853	100,551	1,076
New Jersey.....	1,444,933	20,867	1,443
Delaware.....	168,493	2,680	1,591
Southern states.....	4,936,515	91,578	1,855
Alabama.....	1,513,017	26,536	1,754
Tennessee.....	1,767,518	32,079	1,815
Virginia.....	1,655,980	32,963	1,991

It will be seen from this table that in the northeastern states, out of each 100,000 of population on June 1, 1890, 1,684 were affected with sickness or recent accidents, the greatest proportion being found in the state of Vermont (3,292), and the least in Maine (1,291). In the 3 southern states for which the figures are given, the greatest proportion of sickness was found in Virginia (1,991), and the least in Alabama (1,754). These figures are no doubt too small for each state, but they are larger than any that have been heretofore reported as a result of inquiries of this kind, and furnish therefore probably the best data with regard to the morbidity of a large general population which have heretofore been obtained. The most complete and satisfactory returns of this kind which were obtained in the census of 1890 were those from the state of Rhode Island, which gave a ratio of 1,098 sick and disabled per 100,000 of population.

The corresponding figures for the state census of Massachusetts for 1885 were 931; for Ireland in 1891, 759; for Victoria in 1891, 1,333; for South Australia in 1891, 1,244; for New South Wales in 1891, 1,034; and for Tasmania in 1891, 929. It should be remembered that the United States census was taken at the time of the year when there is probably the least amount of sickness.

The following table shows, for 9 large cities of the United States, arranged in order of magnitude of population, the total population and the number reported as suffering from diseases and recent accidents on June 1, 1890, with the corresponding ratios per 100,000 of population:

CITIES.	Population.	Sick and disabled.	Ratio.
Aggregate.....	6,330,444	63,414	1,002
New York.....	1,515,301	12,511	826
Chicago.....	1,099,850	8,862	806
Philadelphia.....	1,046,964	13,615	1,300
Brooklyn.....	806,343	4,388	544
St. Louis.....	451,770	6,641	1,470
Boston.....	448,477	5,164	1,151
Baltimore.....	434,439	4,731	1,089
Cincinnati.....	296,908	4,131	1,391
Washington.....	230,392	3,371	1,463

It will be seen from the preceding table that the proportion of sick to total population in the large cities was less than it was in the states as a whole, which is contrary to what would have been anticipated, since from the large cities we have full returns from the hospital population. It may be in part due to the fact that the sick poor of some of the cities are treated in part in institutions which are outside of the city limits, this being notably the case in Brooklyn; and in part due to a more defective enumeration of the sick in the large cities than in the smaller towns and rural districts.

The following table shows, for the states of Massachusetts, Vermont, and Maine, and for their sum, the number reported as sick on June 1, 1890, in the aggregate and for each of nine age groups, and the corresponding ratios per 100,000 of the population, with distinction of sex and color:

COLOR AND AGE.	AGGREGATE.						MAINE.					
	Number.			Ratio.			Number.			Ratio. (a)		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Total	45,617	27,981	17,636	1,411	1,760	1,073	8,548	5,050	2,530	1,293	1,702	788
White	45,301	27,798	17,503	1,413	1,764	1,074	8,535	5,050	2,585	1,295	1,704	780
Colored	316	183	133	1,197	1,342	1,042	13	9	4	713	913	478
Under 15 years	2,173	1,155	1,018	251	264	237	185	80	105	102	80	118
White	2,136	1,130	1,006	249	260	237	179	74	105	98	80	118
Colored	37	25	12	560	772	356	6	6				
15 to 25 years	3,286	1,677	1,609	597	533	485	391	199	192	310	3.17	303
White	3,261	1,664	1,597	598	534	482	391	199	192	311	3.18	304
Colored	25	13	12	473	481	465						
25 to 35 years	4,174	2,135	2,039	757	700	725	543	318	225	550	653	450
White	4,138	2,118	2,020	758	702	725	543	318	225	557	655	461
Colored	36	17	19	602	574	706						
35 to 45 years	5,917	3,399	2,518	1,431	1,664	1,203	1,090	740	350	1,346	1,815	870
White	5,800	3,366	2,494	1,432	1,667	1,202	1,090	740	350	1,351	1,822	873
Colored	57	33	24	1,340	1,432	1,231						
45 to 55 years	13,377	7,211	6,166	829	914	748	2,024	1,257	767	664	826	503
White	13,250	7,148	6,111	830	915	748	2,024	1,257	767	666	829	504
Colored	118	63	55	787	790	785						
55 to 65 years	10,528	7,422	3,106	3,257	4,727	1,800	2,240	1,720	520	3,263	5,039	1,507
White	10,477	7,389	3,088	3,267	4,747	1,871	2,240	1,720	520	3,272	5,053	1,510
Colored	51	33	18	2,046	2,468	1,557						
65 to 75 years	8,767	5,676	3,091	4,002	5,392	2,724	1,821	1,362	519	3,520	4,962	2,047
White	8,720	5,648	3,072	4,009	5,396	2,722	1,819	1,361	518	3,534	4,971	2,048
Colored	47	28	19	3,878	4,613	3,140	2	1	1			
75 to 85 years	19,293	13,007	6,106	3,560	4,994	2,216	4,050	3,021	1,038	3,376	5,004	1,734
White	19,197	13,027	6,160	3,567	5,008	2,217	4,050	3,021	1,038	3,384	5,017	1,738
Colored	98	61	37	2,591	3,086	2,044	2	1	1			
85 years and over	10,676	6,443	4,233	5,277	6,776	3,049	2,292	1,594	698	4,380	6,141	2,647
White	10,614	6,409	4,205	5,271	6,760	3,043	2,287	1,592	695	4,278	6,142	2,641
Colored	62	34	28	6,472	8,608	4,973	5	2	3			

a Ratios for the colored omitted, except in total.

VITAL AND SOCIAL STATISTICS.

NUMBER REPORTED SICK, AND RATIO PER 100,000 OF POPULATION—Continued.

COLOR AND AGE.	MASSACHUSETTS.						VERMONT.					
	Number.			Ratio.			Number.			Ratio. (a)		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Total	27,434	15,904	11,530	1,225	1,462	1,002	9,635	6,118	3,517	2,898	3,613	2,150
White	27,150	15,745	11,405	1,221	1,464	1,001	9,616	6,103	3,513	2,901	3,615	2,150
Colored	284	159	125	1,205	1,314	1,090	19	15	4	1,892	2,732	879
Under 15 years	1,648	879	769	270	296	261	340	196	144	366	409	319
White	1,617	860	757	276	292	260	340	196	144	367	410	321
Colored	31	19	12	531	666	492						
15 to 25 years	2,224	1,118	1,106	484	510	461	671	360	311	1,077	1,122	1,028
White	2,199	1,105	1,094	484	509	460	671	360	311	1,082	1,126	1,031
Colored	25	13	12	532	545	518						
25 to 35 years	2,707	1,322	1,385	667	660	665	924	495	429	1,926	2,047	1,803
White	2,672	1,306	1,366	667	670	663	923	494	429	1,931	2,050	1,808
Colored	35	16	19	702	592	832	1	1				
35 to 45 years	3,518	1,905	1,613	1,205	1,335	1,081	1,309	754	555	3,219	3,038	2,784
White	3,464	1,874	1,590	1,203	1,332	1,079	1,306	752	554	3,223	3,043	2,785
Colored	54	31	23	1,402	1,506	1,283	3	2	1			
45 to 55 years	8,449	4,345	4,104	730	776	687	2,904	1,600	1,295	1,925	2,063	1,751
White	8,335	4,285	4,050	729	775	685	2,900	1,606	1,294	1,928	2,067	1,754
Colored	114	60	54	842	839	850	4	3	1			
55 to 65 years	5,942	3,908	1,944	2,608	3,785	1,606	2,346	1,704	642	6,835	9,881	3,759
White	5,895	3,900	1,926	2,704	3,800	1,696	2,342	1,700	642	6,843	9,894	3,766
Colored	47	29	18	2,112	2,456	1,724	4	4				
65 to 75 years	5,175	3,188	1,987	3,046	4,803	2,630	1,771	1,180	585	7,024	9,373	4,657
White	5,137	3,168	1,969	3,646	4,810	2,624	1,764	1,179	585	7,012	9,338	4,668
Colored	38	20	18	3,679	3,922	3,442	7	7				
75 to 85 years	11,117	7,186	3,931	3,070	4,108	2,067	4,117	2,890	1,227	6,915	9,666	4,140
White	11,032	7,137	3,895	3,074	4,190	2,065	4,106	2,879	1,227	6,915	9,659	4,149
Colored	85	49	36	2,609	2,898	2,207	11	11				
85 years and over	9,174	3,467	2,707	5,079	6,315	4,061	2,210	1,382	828	7,775	9,710	5,832
White	9,120	3,436	2,684	5,068	6,297	4,055	2,207	1,381	826	7,782	9,725	5,833
Colored	54	31	23	6,750	9,309	4,925	3	1	2			

a Ratios for the colored omitted, except in total.

It will be seen from this table that for the total population the proportion of sick per 100,000 was greater among males (1,760) than among females (1,073); and that it was greater among the whites (males, 1,764; females, 1,074) than among the colored (males, 1,342; females, 1,042).

For the age group under 15, it was greater among the colored (males, 772; females, 356) than among the whites (males, 260; females, 237).

In the age group from 45 to 65 the proportion of sick among males (4,994) was more than twice as great as among females (2,216).

The following table shows, for each of 9 states and for their sum, the number of those reported as affected with acute or chronic diseases on June 1, 1890, with distinction of certain forms of disease, and the corresponding ratio per 100,000 of population:

STATES.	All causes (excluding paralysis).	Acute fevers.	Rheumatism.	Diarrheal diseases.	Consumption.	Cancer and tumor.	Diabetes.	Diseases of the respiratory system.	Diseases of the digestive system.	Diseases of the nervous system.	Diseases of the circulatory system.	Diseases of the bones and joints.	Accidents and injuries.
Cases.....	190,093	7,931	56,983	7,029	9,478	4,994	581	23,036	13,035	12,152	17,158	11,678	17,081
Ratio.....	1,444	60	432	53	71	37	4	174	103	92	130	88	129
Alabama:													
Cases.....	22,818	959	5,098	506	1,027	768	65	2,904	1,891	1,476	1,881	1,271	2,064
Ratio.....	1,598	63	396	33	68	51	4	192	125	98	124	84	136
Connecticut:													
Cases.....	11,368	466	3,430	403	543	289	44	1,337	933	828	928	540	721
Ratio.....	1,523	62	460	54	73	39	6	170	125	111	124	72	97
Delaware:													
Cases.....	2,221	97	600	69	148	77	3	264	176	126	167	141	245
Ratio.....	1,318	58	356	41	88	46	2	157	104	75	90	84	145
Massachusetts:													
Cases.....	27,568	1,270	7,911	1,106	1,695	820	104	3,067	1,498	2,235	2,590	1,961	2,089
Ratio.....	1,231	57	353	49	76	37	5	137	67	100	116	88	93
New Hampshire:													
Cases.....	8,319	329	2,302	416	379	197	34	959	590	557	908	497	909
Ratio.....	2,209	87	611	110	101	52	9	255	133	148	257	132	241
New Jersey:													
Cases.....	17,665	922	5,281	641	1,063	383	41	2,203	1,532	1,008	1,425	930	1,346
Ratio.....	1,223	64	365	44	74	27	3	152	106	70	90	64	93
New York:													
Cases.....	84,154	3,141	26,866	3,246	3,884	2,051	246	10,375	5,897	4,862	7,626	5,510	8,795
Ratio.....	1,403	52	448	54	65	34	4	173	97	81	127	92	147
Rhode Island:													
Cases.....	6,345	390	1,593	175	333	157	16	851	541	471	480	390	360
Ratio.....	1,836	113	401	51	96	45	5	246	157	136	139	97	104
Vermont:													
Cases.....	9,635	357	3,002	467	406	252	28	1,976	757	589	1,093	402	552
Ratio.....	2,898	107	903	140	122	76	8	324	228	177	329	148	166

Excluding the cases of paralysis, it will be seen that the average proportion of sick reported per 100,000 of population was 1,444, the proportion being greatest in Vermont (2,898) and in New Hampshire (2,209), and least in New Jersey (1,223) and in Massachusetts (1,231).

The proportion of cases of acute fevers per 100,000 of population was, for the total area, 60, being greatest in Rhode Island (113) and in Vermont (107), and least in New York (52) and in Massachusetts (57).

The proportion of cases of rheumatism per 100,000 of population for the total area was 432, being greatest in Vermont (903) and in New Hampshire (611), and least in Massachusetts (353) and in Delaware (356).

The proportion of cases of diarrheal diseases per 100,000 of population for the total area was 53, being greatest in Vermont (140) and in New Hampshire (110), and least in Alabama (33) and in Delaware (41).

The proportion of cases of consumption per 100,000 of population for the whole area was 71, which is certainly much below the true figure. The greatest proportions were reported in Vermont (122) and in New Hampshire (101), and the least in New York (65) and in Alabama (68).

The proportion of cases of cancers and tumors reported per 100,000 of population was 37, being greatest in Vermont (76), and least in New Jersey (27).

The proportion of cases of diseases of the respiratory system per 100,000 of population for the total area, excluding consumption, was 174, the greatest being in Vermont (324) and in New Hampshire (255), and the least in Massachusetts (137) and in New Jersey (152).

The proportion of cases of diseases of the digestive system per 100,000 of population for the total area was 103, the greatest being in Vermont (228) and Rhode Island (157), and the least in Massachusetts (67) and in New York (97).

The proportion of cases of diseases of the nervous system reported per 100,000 of population was, for the total area, 92, being greatest in Vermont (177) and in New Hampshire (148), and least in New Jersey (70) and in Delaware (75).

The proportion of cases of diseases of the circulatory system reported per 100,000 of population was, for the total area, 130, being greatest in Vermont (329) and in New Hampshire (257), and least in Delaware and in New Jersey (each 99).

The proportion of cases of diseases of the bones and joints reported per 100,000 of population was, for the total area, 88, being greatest in Vermont (148) and in New Hampshire (132), and least in New Jersey (64) and in Connecticut (72).

The proportion of cases of accidents and injuries reported per 100,000 of population was, for the total area, 129, being greatest in New Hampshire (241) and in Vermont (166), and least in Massachusetts and in New Jersey (each 93).

It will be observed that not only is the proportion of cases of sickness to population highest in Vermont and in New Hampshire, but that the same is the case for nearly all the several classes of diseases named, and also for accidents and injuries; and it is probable that this is due not so much to an actually greater prevalence of disease in these states as to more accurate and complete reports from them as to the number of sick than were furnished by the other states.

The following table shows, for each of 9 states and for their sum, the total number of all cases of diseases, excluding paralysis, reported as existing on June 1, 1890, and also the number of cases for each of certain diseases or classes of diseases, with the proportion from each per 1,000 of all diseases reported:

STATES.	All causes (excluding paralysis).	Acute fevers.	Rheuma- tism.	Diarr- rheal diseases.	Con- sump- tion.	Cancer and tumor.	Diabetes.	Diseases of the respira- tory system.	Diseases of the digestive system.	Diseases of the nervous system.	Diseases of the circula- tory system.	Diseases of the bones and joints.
Cases.....	190,003	7,931	56,983	7,029	9,478	4,994	581	23,036	13,635	12,152	17,158	11,076
Proportion		41.72	299.76	36.98	49.86	26.27	3.06	131.70	71.73	63.93	90.26	61.43
Alabama:												
Cases.....	22,818	959	5,998	506	1,027	768	65	2,904	1,891	1,476	1,881	1,271
Proportion		42.02	262.86	22.18	45.01	33.60	2.84	127.27	82.87	64.69	82.43	55.70
Connecticut:												
Cases.....	11,368	466	3,430	403	543	289	44	1,337	933	828	928	510
Proportion		49.99	301.72	35.45	47.77	25.42	3.87	117.61	82.07	72.84	81.63	47.50
Delaware:												
Cases.....	2,221	97	600	69	148	77	3	264	170	126	167	141
Proportion		43.67	270.10	31.07	66.94	34.07	1.35	118.87	79.24	56.73	75.15	63.48
Massachusetts:												
Cases.....	27,568	1,270	7,911	1,106	1,695	820	104	3,007	1,498	2,235	2,599	1,601
Proportion		46.07	286.96	46.12	61.48	29.74	3.77	111.25	54.34	81.07	93.94	71.13
New Hampshire:												
Cases.....	8,319	320	2,302	416	379	197	34	959	500	557	968	407
Proportion		39.54	276.72	50.01	45.56	23.68	4.09	115.28	69.10	66.95	116.36	59.75
New Jersey:												
Cases.....	17,665	922	5,281	641	1,063	383	41	2,203	1,592	1,008	1,425	930
Proportion		52.19	298.95	36.29	60.17	21.68	2.32	124.70	86.73	57.06	80.67	52.65
New York:												
Cases.....	84,154	3,141	26,866	3,246	3,884	2,051	246	10,375	5,807	4,802	7,625	5,510
Proportion		37.31	319.25	38.57	46.21	24.37	2.92	123.29	69.00	57.78	90.62	65.48
Rhode Island:												
Cases.....	6,345	390	1,593	175	333	157	16	851	541	471	480	336
Proportion		61.47	251.66	27.58	52.48	24.74	2.52	134.12	85.26	74.23	75.65	52.95
Vermont:												
Cases.....	9,635	357	3,002	467	406	252	28	1,076	757	580	1,093	492
Proportion		37.05	310.53	48.47	42.14	26.15	2.91	111.08	78.57	61.13	113.44	61.66

It will be seen from this table that out of each 1,000 cases of diseases reported for the total area 41.72 were cases of acute fevers, the greatest proportion being in Rhode Island (61.47), and the least in Vermont (37.05).

For rheumatism, the corresponding figures were, for the total area, 299.76; greatest, New York, 319.25; least, Rhode Island, 251.66.

For diarrheal diseases, the corresponding figures were, for the total area, 36.98; greatest, New Hampshire, 50.01; least, Alabama, 22.18.

For consumption, the corresponding figures were, for the total area, 49.86; greatest, Delaware, 66.64; least, Vermont, 42.14.

For cancers and tumors, the corresponding figures were, for the total area, 26.27; greatest, Delaware, 34.67; least, New Jersey, 21.68.

For diabetes, the corresponding figures were, for the total area, 3.06; greatest, New Hampshire, 4.09; least, Delaware, 1.35.

For diseases of the respiratory system, the corresponding figures were, for the total area, 131.70; greatest, Rhode Island, 134.12; least, Massachusetts, 111.25.

For diseases of the digestive system, the proportion was, for the total area, 71.73; greatest, New Jersey, 86.73; least, Massachusetts, 54.34.

For diseases of the nervous system, the proportion was, for the total area, 63.93; greatest, Massachusetts, 81.07; least, Delaware, 56.73.

For diseases of the circulatory system, the proportion was, for the total area, 90.26; greatest, New Hampshire, 116.36; least, Delaware, 75.15.

For diseases of the bones and joints, the proportion was, for the total area, 61.43; greatest, Massachusetts, 71.13; least, Connecticut, 47.50.

The following table shows, for each of 12 states and for their sum, the number of persons living on June 1, 1890, reported as having lost arms and legs, with the ratios per 1,000,000 of population:

STATES.	PERSONS HAVING LOST LIMBS.					RATIO.		
	Total.	One arm.	Both arms.	One leg.	Both legs.	Total.	One arm.	One leg.
Aggregate.....	12,455	6,198	118	5,806	278	722	359	340
Maine	560	200	10	253	7	847	439	383
New Hampshire.....	460	221	5	223	11	1,222	587	592
Vermont.....	450	259	9	178	4	1,354	779	535
Massachusetts.....	1,731	829	12	836	54	773	370	373
Connecticut	588	200	5	275	18	788	389	369
Rhode Island	237	120	.....	109	8	686	347	315
New York.....	3,883	1,881	37	1,870	89	647	314	313
New Jersey.....	982	472	8	471	31	680	327	326
Delaware.....	145	77	1	64	3	861	457	380
Virginia.....	1,176	531	14	603	28	710	321	364
Tennessee.....	906	503	7	442	14	547	285	250
Alabama.....	1,277	725	5	536	11	844	479	354

It will be seen from this table that in each 1,000,000 of population, 359 persons were reported as having lost one arm, 340 as having lost one leg, and 722 as having lost one or more limbs; the highest proportion for those last being in Vermont (1,354) and in New Hampshire (1,222), and the lowest in Tennessee (547) and in New York (647).

The following table shows, for 3 states, namely, Maine, Vermont, and Massachusetts, and for their sum, the male population, and the number of males reported as having lost limbs on June 1, 1890, with the corresponding ratio per 1,000,000 of population:

STATES.	MALES.		
	Population.	Limbs lost.	Ratio.
Aggregate.....	1,589,026	2,521	1,586
Maine	332,590	528	1,573
Vermont.....	109,327	420	2,480
Massachusetts.....	1,087,709	1,578	1,451

It will be seen from this table that the ratio per 1,000,000 for the total area was 1,586, being greatest in Vermont (2,480), and least in Massachusetts (1,451).

VITAL AND SOCIAL STATISTICS.

These figures may be compared with the following table showing the results of the examinations of recruits and drafted men in the cities, in certain states, with regard to loss of limbs, as reported in "Statistics, Medical and Anthropological, of the War Department, 1875":

STATES.	PERSONS EXAMINED.		
	Total.	Limbs lost.	Ratio.
Aggregate.....	206,510	263	1,274
Maine.....	20,479	22	1,074
New Hampshire.....	10,013	9	899
Vermont.....	7,224	8	1,107
Massachusetts.....	36,380	64	1,759
Connecticut.....	11,017	13	1,180
Rhode Island.....	4,072	23	5,648
New York.....	95,576	99	1,036
New Jersey.....	15,388	13	845
Delaware.....	6,361	12	1,886

These data refer to males only, and it will be seen that out of each 1,000,000 of men examined 1,274 were found to have lost one or more limbs.

The following table shows, for the states of Virginia and Tennessee, the number of persons reported on June 1, 1890, as having lost limbs, with distinction of color, and the corresponding ratios per 1,000,000 of population:

STATES.	LIMBS LOST.						RATIO.					
	One arm.			One leg.			One arm.			One leg.		
	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.
Virginia.....	531	386	145	603	425	178	320	378	228	364	417	290
Tennessee.....	503	386	117	442	328	114	285	280	272	250	215	265

It will be seen from this table that the proportion of maimed in Virginia was less among the colored than among the white. In Tennessee the proportion of those who had lost arms was greatest among the whites, and for those who had lost legs it was greatest among the colored.

The following table shows, for 3 states in 1890 and for 19 states in 1880, the number of whites reported as sick on June 1, with distinction of sex, and the ratio of sick in each of 7 age groups per 100,000 population of corresponding ages:

NUMBER SICK AND RATIO PER 1,000 OF POPULATION AT CERTAIN AGES.	THREE STATES, 1890. (a)		NINETEEN STATES, 1880. (b)	
	Males.	Females.	Males.	Females.
Total numbersick.....	27,981	17,636	135,338	122,347
Ratio of sick at certain ages:				
15 years and over.....	17.60	10.73	13.41	12.15
15 to 25 years.....	5.33	4.85	6.90	6.80
25 to 35 years.....	7.90	7.25	8.60	9.70
35 to 45 years.....	16.64	12.03	12.20	11.50
45 to 55 years.....	47.27	18.69	16.80	14.40
55 to 65 years.....	53.92	27.24	25.50	20.40
65 years and over.....	67.76	39.49	44.50	35.30

a Maine, Massachusetts, and Vermont.

b Alabama, California, Connecticut, Delaware, Georgia, Illinois, Maine, Maryland, Michigan, New Hampshire, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia, and West Virginia.

It will be seen from this table that the proportion of sick in the total population over 15 years of age, in the specified states in 1890, was greater among males (17.60) per 1,000 than it was in 1880 (13.41), but that it was somewhat less in the former states in 1890 among females (10.73) than it was in 1880 (12.15).

For the age group 15 to 35 the proportion of sick reported per 1,000 of population was less in 1890 than it was in 1880, while in the age groups above 35 it was greater in 1890 than in 1880 in each sex.

SECTION XII.

BIRTHS AND BIRTH RATES.

The data for estimating the number of births and computing birth rates of either the United States as a whole or of the several states are not sufficient to give accurate results.

No attempt was made to secure returns of births through the enumerators, but the number, as in 1880, has been estimated by adding to the living children under 1 year of age on June 1, 1890, as shown by the population returns, the number of those who were born during the year ending May 31, 1890, but who died before the end of the year, as shown by the return of deaths. If these returns were entirely accurate the addition of these two factors would give the actual number of births during the year.

The population reported as under 1 year of age on June 1, 1890, was 1,566,734, and the number of those reported as born during the year, but dying before its close, exclusive of stillbirths, was 104,087, making a total of 1,670,821 births, and giving a birth rate of 26.68 per 1,000 of population.

In 1880 the population reported as under 1 year of age was 1,447,983, and the number of the "Born and died", excluding stillbirths, was 104,314, making a total of 1,552,297 estimated births, and giving a birth rate of 30.95 per 1,000 of population.

It will be seen that the number of the "Born and died" in 1890 (104,087) was less than the corresponding number in 1880 (104,314), which was no doubt largely due to a more defective enumeration of deaths in the nonregistration area, and which in itself accounts to some extent for the decrease in the birth rate.

It will be seen that in estimating births in this way the factor represented by the "Born and died" is comparatively insignificant, being only about 6 per cent of the whole, while the population factor constitutes about 94 per cent, hence any deficiency in the enumeration of the population under 1 year of age has a much greater effect in diminishing the estimated number of births.

In Section XIV (ages of the living population) a comparison of the number of children enumerated in Massachusetts with the number of births registered shows a deficiency in the number of children enumerated in 1890 of 25 per cent and in 1880 of 5 per cent, and the conclusion is reached that the deficiencies shown for Massachusetts are applicable to the United States as a whole.

Proceeding upon this basis, and applying the deficiency percentages found in Massachusetts to the figures given above for the United States, gives for 1890 a corrected number of births of 2,062,507, and a birth rate of 32.94 per 1,000 of population; and for 1880 a corrected number of births of 1,624,696, and a birth rate of 32.26 per 1,000 of population, stillbirths being excluded in each case.

It will be seen from the preceding that the births and birth rates given in the following tables, which are estimated upon the number of children under 1 year of age on June 1, 1890, as reported, plus the number of "Born and died", are from 20 to 25 per cent too low, but the deficiency in the enumeration of children in the different states and areas varies so greatly that any correction based upon a uniform percentage of omission would be unreliable, and the figures are given, therefore, without correction.

The following table shows, for the registration area and some of its subdivisions, the birth rate per 1,000 females of all ages, per 1,000 females between 15 and 50 years of age, and per 1,000 married females between 15 and 45 years of age, with distinction of color:

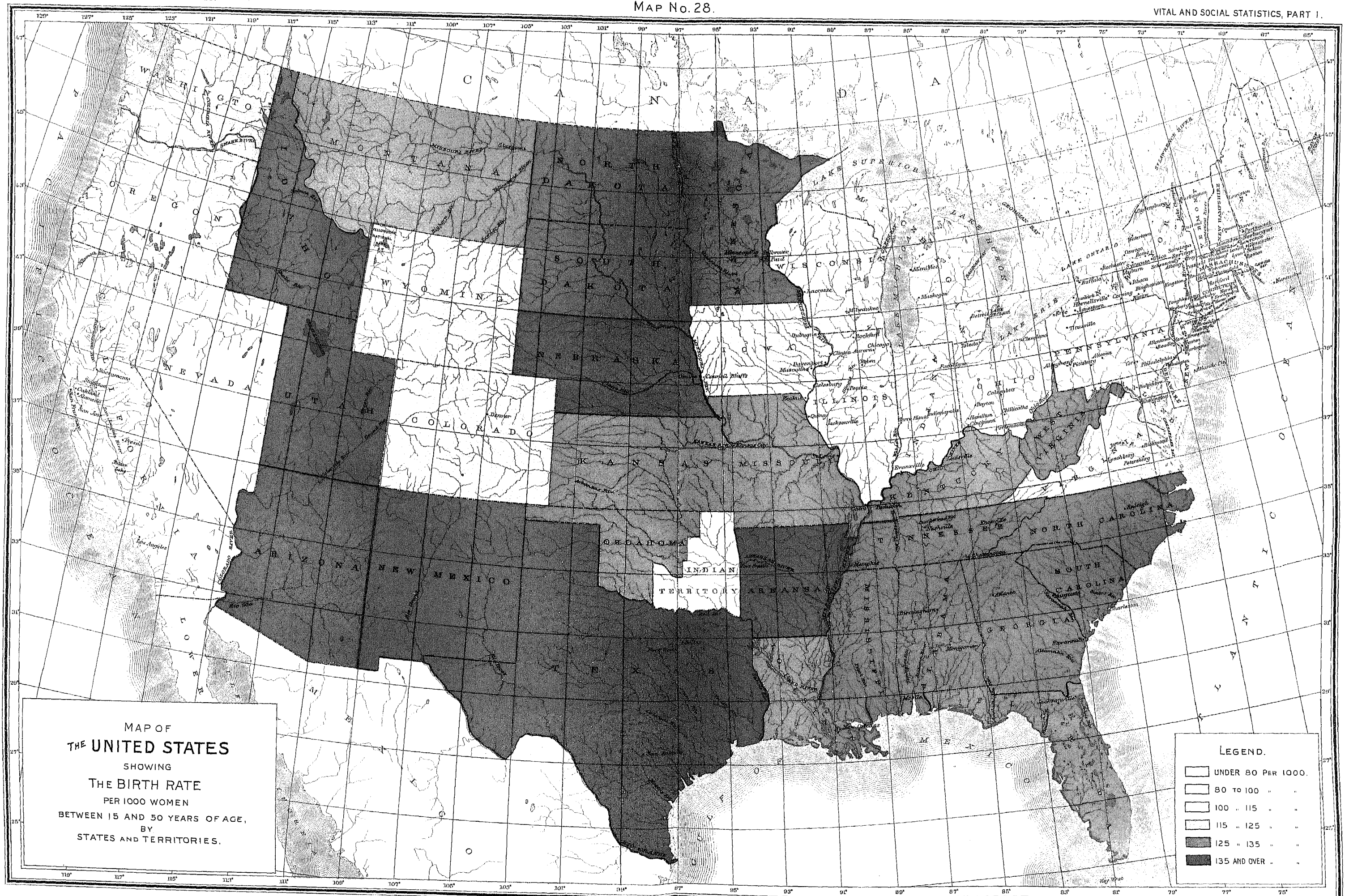
REGISTRATION AREAS.	FEMALES OF ALL AGES.			FEMALES BETWEEN 15 AND 50 YEARS OF AGE.			MARRIED FEMALES BETWEEN 15 AND 45 YEARS OF AGE.		
	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.
Registration area....	48.15	48.18	47.47	85.40	85.79	78.45	183.63	184.12	174.61
Cities.....	51.01	51.24	47.24	88.22	88.90	77.11	191.99	193.28	172.10
States.....	45.00	44.93	47.00	80.82	80.83	80.49	176.07	175.88	183.76
Cities.....	48.86	48.91	47.04	83.98	84.24	75.38	189.00	189.38	175.88
Rural.....	38.91	38.72	50.07	75.21	74.84	96.15	155.06	154.21	205.68
Cities in other states.....	53.06	53.63	47.30	92.32	93.88	77.64	194.70	197.05	171.12

This table indicates that in all parts of the registration area, except the rural portions of the registration states, the birth rate of the colored was less than that of the whites, and that the birth rate of the whites was greater in the cities than in the rural districts.

VITAL AND SOCIAL STATISTICS.

The following table shows, for the United States, for several groups of states, and for each state and territory, the birth rates per 1,000 females of all ages, per 1,000 females between 15 and 50 years of age, and per 1,000 married females between 15 and 45 years of age, with distinction of color:

STATES AND TERRITORIES.	FEMALES OF ALL AGES.			FEMALES BETWEEN 15 AND 50 YEARS OF AGE.			MARRIED FEMALES BETWEEN 15 AND 45 YEARS OF AGE.		
	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.
The United States.....	54.68	54.11	58.78	106.13	104.20	120.73	209.40	205.63	237.80
North Atlantic division.....	46.73	46.73	46.76	85.45	85.59	77.97	182.49	182.67	172.28
Maine	35.80	35.82	29.87	69.03	69.07	54.00	140.52	140.56	122.55
New Hampshire	36.42	36.41	44.07	68.34	68.32	82.28	145.44	145.34	232.14
Vermont.....	37.73	37.70	48.35	74.24	74.17	90.55	145.52	145.36	209.52
Massachusetts.....	41.83	41.79	45.33	73.18	73.17	74.16	172.68	172.78	163.93
Rhode Island.....	43.57	43.50	43.82	76.84	76.90	74.46	177.96	178.12	171.20
Connecticut.....	42.11	42.13	40.94	76.52	76.00	72.05	171.06	171.20	158.43
New York	46.22	46.27	42.57	83.02	83.23	68.19	177.40	177.68	155.95
New Jersey.....	50.20	50.15	51.71	91.33	91.47	87.74	188.70	188.73	187.82
Pennsylvania.....	52.11	52.18	48.95	98.60	98.97	82.67	208.00	203.51	180.20
South Atlantic division.....	57.56	56.21	59.84	118.12	114.13	125.05	238.02	230.74	250.50
Delaware	50.57	49.17	57.49	96.66	93.25	114.40	191.63	185.68	221.70
Maryland.....	51.20	50.06	55.49	97.85	95.32	107.64	212.49	207.58	231.21
District of Columbia.....	43.99	41.11	49.42	74.48	70.56	81.60	184.94	173.31	206.69
Virginia.....	54.00	53.38	54.98	110.90	108.63	114.51	241.61	230.47	260.72
West Virginia.....	62.28	62.50	56.86	120.16	120.84	113.36	252.34	258.33	228.35
North Carolina.....	59.69	59.07	59.15	125.65	125.53	125.59	255.77	249.82	267.50
South Carolina.....	61.80	57.36	64.76	132.03	119.63	141.73	250.05	235.36	259.63
Georgia.....	60.71	58.97	62.70	126.75	122.10	132.14	238.54	233.05	244.72
Florida.....	58.47	58.95	57.85	117.71	117.89	117.48	211.30	208.13	215.65
North Central division.....	55.88	55.95	52.37	108.51	108.74	97.55	206.74	206.98	194.61
Ohio.....	48.60	48.66	49.69	92.45	92.40	90.62	187.06	187.12	184.73
Indiana.....	51.62	51.08	48.57	99.38	99.00	89.03	190.00	190.18	181.06
Illinois.....	57.02	57.14	48.39	108.12	108.47	86.10	211.34	212.06	166.14
Michigan.....	51.82	51.84	50.29	99.47	99.53	94.16	180.14	180.14	179.77
Wisconsin.....	56.11	56.09	62.46	114.75	114.69	131.39	223.34	223.28	240.00
Minnesota.....	64.26	64.34	44.47	128.16	128.39	78.50	243.94	244.42	144.53
Iowa.....	54.49	54.53	48.98	107.73	107.84	88.96	203.08	203.32	168.97
Missouri.....	59.46	59.65	56.48	115.90	116.46	106.96	221.04	221.26	217.25
North Dakota.....	83.02	83.01	86.27	167.24	167.28	156.03	272.13	272.10	282.05
South Dakota.....	72.41	72.03	105.28	147.70	146.93	341.38	243.20	241.98	532.26
Nebraska.....	63.66	63.90	40.90	125.03	125.65	72.40	214.48	215.21	142.56
Kansas.....	59.55	59.81	52.62	118.07	118.61	103.79	209.73	209.91	204.56
South Central division.....	62.53	63.82	59.85	129.79	131.98	125.17	242.40	243.51	239.96
Kentucky.....	59.76	60.45	55.77	120.36	121.96	111.15	235.51	235.94	232.85
Tennessee.....	61.75	61.65	62.05	126.22	126.04	126.75	245.98	242.70	256.13
Alabama.....	60.85	63.11	58.12	127.02	132.08	120.94	244.24	250.46	236.52
Mississippi.....	60.65	61.11	60.32	128.10	127.67	128.41	242.52	246.16	239.92
Louisiana.....	59.16	60.49	57.84	122.21	122.85	121.56	236.33	240.25	226.94
Texas.....	65.76	67.14	61.09	139.32	141.67	131.28	242.57	240.30	251.88
Oklahoma.....	60.88	61.16	55.68	120.69	121.42	107.34	182.64	182.68	181.82
Arkansas.....	70.26	72.33	64.87	148.16	153.25	135.11	254.31	260.08	238.87
Western division.....	55.94	56.34	39.72	103.48	104.88	69.06	186.10	187.59	127.46
Montana.....	68.09	68.45	50.88	119.69	120.42	85.98	190.23	190.74	162.54
Wyoming.....	61.89	62.22	37.54	113.48	114.54	53.92	178.33	179.22	114.58
Colorado.....	61.94	62.38	35.20	107.80	108.98	52.06	184.50	185.75	107.38
New Mexico.....	74.22	76.72	39.46	143.05	148.08	70.75	224.31	231.74	120.26
Arizona.....	64.51	65.48	40.05	125.07	127.35	71.87	204.12	207.28	125.00
Utah.....	66.57	66.67	46.61	145.24	145.60	83.97	260.77	261.55	139.24
Nevada.....	45.20	46.20	37.30	82.54	84.46	67.45	160.72	160.67	161.21
Idaho.....	69.19	69.42	37.66	143.94	144.71	61.64	220.83	221.74	108.43
Washington.....	62.39	62.76	43.02	115.39	116.06	79.97	180.71	181.44	137.80
Oregon.....	53.50	53.62	42.04	101.85	102.19	72.15	178.67	179.13	135.71
California.....	46.15	46.34	39.30	83.23	83.63	69.20	168.15	169.48	126.31



BIRTHS AND BIRTH RATES.

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The following table shows, for the United States and for each state and territory, the number of female births to 100,000 male births:

STATES AND TERRITORIES.	Number of female births to 100,000 male births.	STATES AND TERRITORIES.	Number of female births to 100,000 male births.
The United States	94, 743	Indiana	94, 601
Montana	90, 582	Minnesota	94, 719
Maine	91, 064	Pennsylvania	94, 734
Rhode Island	92, 052	Maryland	94, 749
West Virginia	92, 387	Wisconsin	94, 771
California	92, 789	Kentucky	94, 884
New Hampshire	92, 809	New York	94, 949
Washington	92, 939	Vermont	95, 179
Kansas	93, 041	Oklahoma	95, 498
Alabama	93, 051	Arkansas	95, 532
North Dakota	93, 091	Colorado	95, 593
Oregon	93, 370	North Carolina	95, 673
Delaware	93, 493	Ohio	95, 893
Michigan	93, 541	South Dakota	95, 074
Mississippi	93, 653	Massachusetts	96, 139
South Carolina	93, 695	Iowa	96, 201
Tennessee	93, 850	Florida	97, 065
New Jersey	93, 893	Idaho	97, 584
Illinois	94, 040	Nebraska	97, 643
Texas	94, 101	Georgia	97, 942
New Mexico	94, 321	District of Columbia	98, 284
Missouri	94, 384	Utah	100, 278
Connecticut	94, 415	Arizona	103, 420
Louisiana	94, 600	Wyoming	104, 328

The following table shows, for certain states, the number of female births to 100,000 male births, with distinction of color:

STATES AND TERRITORIES.	NUMBER OF FEMALE BIRTHS TO 100,000 MALE BIRTHS.			STATES AND TERRITORIES.	NUMBER OF FEMALE BIRTHS TO 100,000 MALE BIRTHS.		
	Total.	White.	Colored.		Total.	White.	Colored.
Alabama	93, 051	90, 944	95, 889	Maryland	94, 749	93, 277	101, 286
Arkansas	95, 532	94, 602	98, 200	Mississippi	93, 653	93, 004	94, 131
Delaware	93, 493	92, 309	98, 267	North Carolina	95, 673	94, 867	97, 184
District of Columbia	98, 284	97, 202	99, 710	South Carolina	93, 695	92, 522	94, 376
Florida	97, 065	93, 507	101, 994	Tennessee	93, 850	93, 096	96, 158
Georgia	97, 942	92, 582	104, 030	Texas	94, 101	93, 395	97, 054
Louisiana	94, 600	93, 050	96, 215	Virginia	94, 609	92, 010	98, 842

The birth rate per 1,000 females between 15 and 50 years of age, in the several states and territories, is shown by map No. 28.

SECTION XIII.

LIFE TABLES.

The expectation of life, as derived from life tables computed for Massachusetts, New Jersey, and certain cities, is shown below. These tables were computed according to the method described on page cxliii of volume XII of the Tenth Census Reports, the population data being used as reported, but for Massachusetts and New Jersey additional tables were computed in which the population under 15 years was adjusted by the formula of Mr. Elliott (Vital Statistics, Ninth Census Report, page 517).

Owing to the marked deficiency in the population data for children under 1 year of age, as explained in Section XIV, page 490, et seq., of this report, these life tables were even more inaccurate than those given in volume XII of the Tenth Census Reports, and the same must therefore be said of the expectation of life derived from them. The deficiency in the return of children under 1 year of age was so great that the omission assumed by Mr. Elliott as the basis of his formula in 1870 is entirely inadequate.

The following table shows the expectation of life in Massachusetts, census year; New Jersey, 6 years; District of Columbia, census year; Baltimore, 6 years; Brooklyn, 6 years; Chicago, census year; Cincinnati, census year; New York, 6 years; and Philadelphia, 6 years. For purposes of comparison, the expectation of life as shown by Farr's English Life Table, No. 3, is also given.

ENGLISH LIFE, NO. 3.			MASSACHUSETTS, CENSUS YEAR.			MASSACHUSETTS, CENSUS YEAR. (a)			NEW JERSEY, 6 YEARS.					
Ages.	Males.	Females.	Ages.	White.			Ages.	White.			Ages.	White.		
				Males.	Females.	Persons.		Males.	Females.	Persons.		Males.	Females.	Persons.
0	39.91	41.85	0	40.39	42.50	41.40	0	40.83	43.07	41.98	0	40.11	43.55	41.83
1	46.65	47.31	1	49.29	50.40	49.85	1	50.14	51.21	50.68	1	48.73	51.08	49.01
2	48.83	49.40	2	52.13	53.15	52.64	2	51.85	52.86	52.36	2	51.66	53.81	52.74
3	49.61	50.20	3	52.37	53.45	52.91	3	52.27	53.35	52.81	3	52.00	54.22	53.11
4	49.81	50.43	4	52.20	53.29	52.75	4	52.18	53.27	52.73	4	52.04	54.25	53.15
5	49.71	50.33	5	51.93	53.02	52.48	5	51.93	53.02	52.48	5	51.79	53.99	52.88
10	47.05	47.47	10	48.83	49.97	49.40	10	48.83	49.97	49.40	10	48.62	50.82	49.72
15	43.18	43.90	15	44.78	45.98	45.38	15	44.78	45.98	45.38	15	44.55	46.79	45.67
20	39.48	40.29	20	41.09	42.42	41.76	20	41.09	42.42	41.76	20	40.72	43.09	41.91
25	36.12	37.04	25	37.79	39.04	38.42	25	37.79	39.04	38.42	25	37.36	39.57	38.47
30	32.76	33.81	30	34.50	35.76	35.13	30	34.50	35.76	35.13	30	34.05	36.18	35.12
35	29.40	30.59	35	31.20	32.48	31.84	35	31.20	32.48	31.84	35	30.73	32.78	31.76
40	26.06	27.34	40	27.86	29.17	28.52	40	27.86	29.17	28.52	40	27.46	29.37	28.42
45	22.76	24.06	45	24.51	25.86	25.19	45	24.51	25.86	25.19	45	24.18	25.95	25.07
50	19.51	20.75	50	21.33	22.56	21.95	50	21.33	22.56	21.95	50	20.97	22.54	21.76
55	16.45	17.43	55	18.15	19.25	18.70	55	18.15	19.25	18.70	55	17.70	19.13	18.45
60	13.53	14.34	60	15.35	16.32	15.84	60	15.35	16.32	15.84	60	14.91	16.09	15.50
65	10.82	11.51	65	12.54	13.88	12.96	65	12.54	13.38	12.96	65	12.05	13.05	12.55
70	8.45	9.02	70	10.38	11.03	10.71	70	10.38	11.03	10.71	70	9.94	10.71	10.33
75	6.40	6.93	75	8.21	8.68	8.45	75	8.21	8.68	8.45	75	7.83	8.37	8.10
80	4.93	5.26	80	6.91	7.17	7.04	80	6.91	7.17	7.04	80	6.71	7.07	6.89
85	3.73	3.98	85	5.60	5.66	5.63	85	5.60	5.66	5.63	85	5.58	5.77	5.68

a Population under 15 years of age adjusted by Elliott's formula.

LIFE TABLES.

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EXPECTATION OF LIFE—Continued.

NEW JERSEY, 6 YEARS. (a)				DISTRICT OF COLUMBIA, CENSUS YEAR.				BALTIMORE, MD., 6 YEARS.			
Ages.	White.			Ages.	White.			Ages.	White.		
	Males.	Females.	Persons.		Males.	Females.	Persons.		Males.	Females.	Persons.
0	40.02	44.09	42.36	0	38.42	43.23	40.83	0	38.82	41.84	40.33
1	49.46	51.74	50.60	1	47.48	50.81	49.15	1	48.12	50.36	49.24
2	51.38	53.52	52.45	2	50.52	55.32	52.92	2	51.85	54.22	53.04
3	51.87	54.09	52.98	3	50.36	55.11	52.74	3	52.20	54.56	53.38
4	51.98	54.20	53.09	4	50.04	54.33	52.20	4	52.11	54.33	53.22
5	51.78	53.94	52.86	5	49.55	54.32	51.94	5	51.67	54.02	52.85
10	48.03	50.83	49.73	10	46.12	50.91	48.52	10	48.18	50.41	49.30
15	44.55	46.70	45.67	15	41.82	46.68	44.25	15	43.85	46.14	45.00
20	40.72	43.09	41.91	20	37.78	42.66	40.22	20	39.87	42.19	41.03
25	37.36	39.57	38.47	25	34.50	39.22	36.86	25	36.31	38.64	37.48
30	34.05	36.18	35.12	30	31.37	35.90	33.64	30	32.96	35.26	34.11
35	30.73	32.78	31.76	35	28.23	32.58	30.41	35	29.60	31.87	30.74
40	27.46	29.37	28.42	40	24.98	29.21	27.10	40	26.38	28.48	27.43
45	24.18	25.95	25.07	45	21.73	25.83	23.78	45	23.15	25.08	24.12
50	20.97	22.54	21.76	50	18.99	22.48	20.74	50	20.04	21.64	20.84
55	17.76	19.13	18.45	55	16.25	19.13	17.69	55	16.93	18.20	17.57
60	14.91	16.09	15.50	60	13.68	16.21	14.95	60	14.20	15.24	14.72
65	12.05	13.05	12.55	65	11.11	13.28	12.20	65	11.46	12.27	11.87
70	9.94	10.71	10.33	70	9.23	10.83	10.03	70	9.47	10.09	9.78
75	7.83	8.37	8.10	75	7.35	8.37	7.86	75	7.48	7.90	7.69
80	6.71	7.07	6.89	80	6.49	7.16	6.83	80	6.59	6.74	6.67
85	5.58	5.77	5.68	85	5.63	5.95	5.79	85	5.70	5.58	5.64

BOSTON, MASS., 6 YEARS.				BROOKLYN, N. Y., 6 YEARS.				CHICAGO, ILL., CENSUS YEAR.			
Ages.	White.			Ages.	White.			Ages.	White.		
	Males.	Females.	Persons.		Males.	Females.	Persons.		Males.	Females.	Persons.
0	33.65	36.12	34.89	0	32.77	36.02	34.40	0	37.76	41.31	39.54
1	43.19	44.78	43.99	1	42.00	44.49	43.25	1	46.97	49.20	48.09
2	46.94	48.44	47.69	2	46.09	48.55	47.32	2	50.32	52.78	51.55
3	47.67	49.08	48.38	3	46.91	49.35	48.13	3	50.61	53.00	51.81
4	47.75	49.32	48.54	4	47.20	49.60	48.45	4	50.47	52.92	51.70
5	47.65	49.18	48.42	5	47.26	49.57	48.42	5	50.23	52.65	51.44
10	44.75	46.49	45.62	10	44.56	47.05	45.81	10	47.07	49.76	48.42
15	40.61	42.43	41.52	15	40.38	42.99	41.69	15	42.91	45.68	44.30
20	36.96	38.97	37.97	20	36.54	39.12	37.83	20	39.20	41.96	40.58
25	33.81	35.50	34.70	25	33.26	35.62	34.44	25	35.68	38.55	37.12
30	30.89	32.47	31.64	30	30.18	32.42	31.30	30	32.14	35.14	33.64
35	27.79	29.34	28.67	35	27.10	29.22	28.16	35	28.59	31.72	30.16
40	24.80	26.26	25.53	40	24.12	26.07	25.10	40	25.44	28.25	26.85
45	21.81	23.17	22.49	45	21.13	22.91	22.02	45	22.29	24.78	23.54
50	18.87	20.12	19.50	50	18.27	19.85	19.06	50	19.32	21.42	20.37
55	15.92	17.06	16.49	55	15.40	16.79	16.10	55	16.34	18.06	17.20
60	13.41	14.36	13.89	60	13.12	14.16	13.64	60	13.91	15.25	14.58
65	10.90	11.65	11.28	65	10.84	11.53	11.19	65	11.47	12.43	11.95
70	9.07	9.64	9.36	70	9.07	9.63	9.35	70	9.47	10.38	9.93
75	7.23	7.63	7.43	75	7.29	7.72	7.51	75	7.40	8.33	7.90
80	6.30	6.58	6.44	80	6.33	6.56	6.45	80	6.44	7.09	6.77
85	5.36	5.53	5.45	85	5.36	5.40	5.38	85	5.42	5.84	5.63

a Population under 15 years adjusted by Elliott's formula.

VITAL AND SOCIAL STATISTICS.

EXPECTATION OF LIFE—Continued.

CINCINNATI, OHIO, CENSUS YEAR.				NEW YORK, N. Y., 6 YEARS.				PHILADELPHIA, PA., 6 YEARS.			
Ages.	White.			Ages.	White.			Ages.	White.		
	Males.	Females.	Persons.		Males.	Females.	Persons.		Males.	Females.	Persons.
0	35.65	39.78	37.72	0	28.97	32.67	30.82	0	36.61	39.13	37.87
1	42.90	46.65	44.78	1	38.17	41.39	39.78	1	45.67	47.91	46.74
2	46.74	51.58	49.16	2	43.91	46.15	44.58	2	48.93	51.71	50.32
3	47.33	52.38	49.86	3	44.93	47.16	45.60	3	49.33	52.11	50.72
4	47.85	52.73	50.29	4	44.47	47.59	46.03	4	49.30	52.15	50.76
5	47.07	52.80	50.24	5	44.42	47.59	46.01	5	49.14	51.96	50.55
10	44.97	50.12	47.55	10	41.47	44.09	43.08	10	45.98	48.87	47.43
15	40.79	45.01	43.35	15	37.22	40.48	38.85	15	41.80	44.77	43.32
20	36.92	41.88	39.40	20	33.36	36.54	34.95	20	38.13	41.10	39.62
25	33.47	38.23	35.85	25	30.09	33.07	31.58	25	34.82	37.71	36.27
30	30.31	34.91	32.61	30	27.13	29.99	28.56	30	31.65	34.48	33.07
35	27.14	31.59	29.37	35	24.16	26.80	25.53	35	28.47	31.24	29.86
40	24.07	28.40	26.24	40	21.57	23.98	22.78	40	25.40	27.98	26.69
45	21.00	25.21	23.11	45	18.97	21.05	20.01	45	22.32	24.72	23.52
50	18.04	22.04	20.04	50	16.51	18.24	17.38	50	19.31	21.44	20.38
55	15.07	18.87	16.97	55	14.04	16.42	14.73	55	16.29	18.15	17.22
60	12.93	15.75	14.34	60	12.03	13.09	12.56	60	13.71	15.23	14.47
65	10.79	12.63	11.71	65	10.01	10.75	10.38	65	11.13	12.30	11.72
70	8.93	10.68	9.81	70	8.52	8.95	8.74	70	9.26	10.16	9.71
75	7.07	8.73	7.90	75	7.02	7.15	7.09	75	7.39	8.02	7.71
80	6.35	7.11	6.73	80	6.13	6.27	6.20	80	6.39	6.74	6.57
85	5.62	5.49	5.56	85	5.23	5.89	5.31	85	5.38	5.46	5.42

This table, showing the expectation of life as calculated from census data, can not properly be compared with the corresponding table given on pages cxliv and cxlv of volume XII of the Tenth Census Reports, and merely indicates that the relative duration of life after each of certain ages probably varies in the several states and cities in about the proportions shown.

SECTION XIV.

AGES OF THE LIVING POPULATION.

The age distribution of the population is of great importance in the study of death rates in relation to age, sex, locality, occupation, etc., and the peculiarities in the age distribution in different localities must be taken into account in comparing gross death rates, birth rates, and the mortality from different diseases in one section with those in another.

Table 22, Part I, shows the age distribution of the aggregate population of the United States, and the proportion at each age, and under each age, per 100,000 at known ages, with distinction of sex, color, general nativity, and parental nativity.

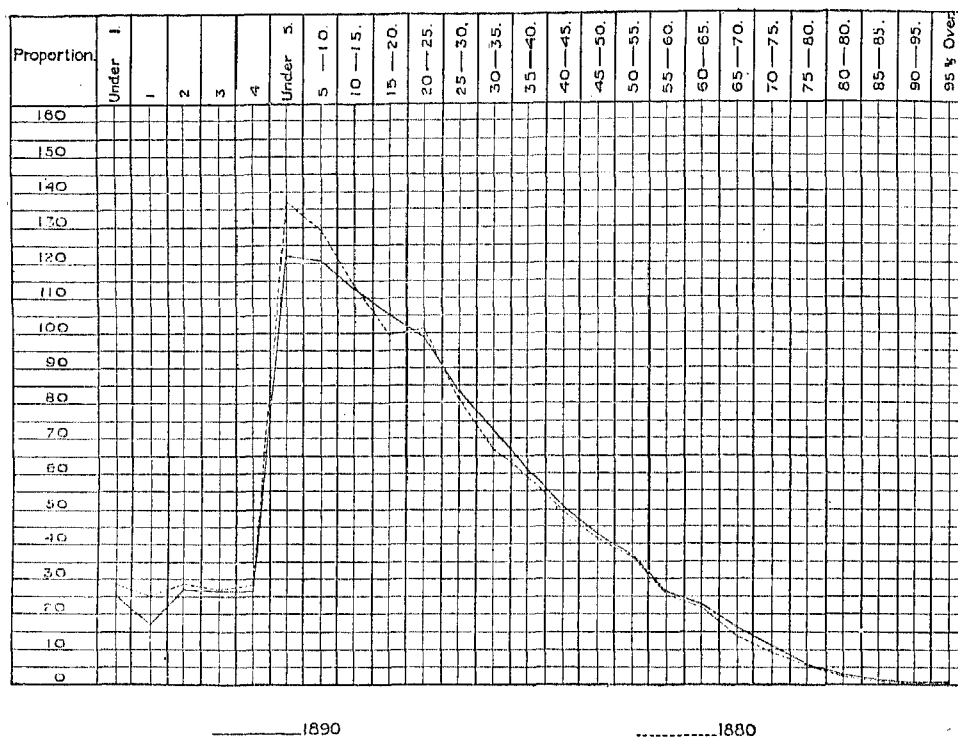
Tables 23 to 25, inclusive, Part I, show the age distribution of the population of the United States, and of each state and territory, and the proportion at each age, and under each age, per 100,000 at known ages, in the aggregate, and for the white and the colored.

The following table shows the proportion of the living population at each age per 1,000 at known ages, with distinction of native born whites, foreign born whites, and colored, at the censuses of 1880 and 1890:

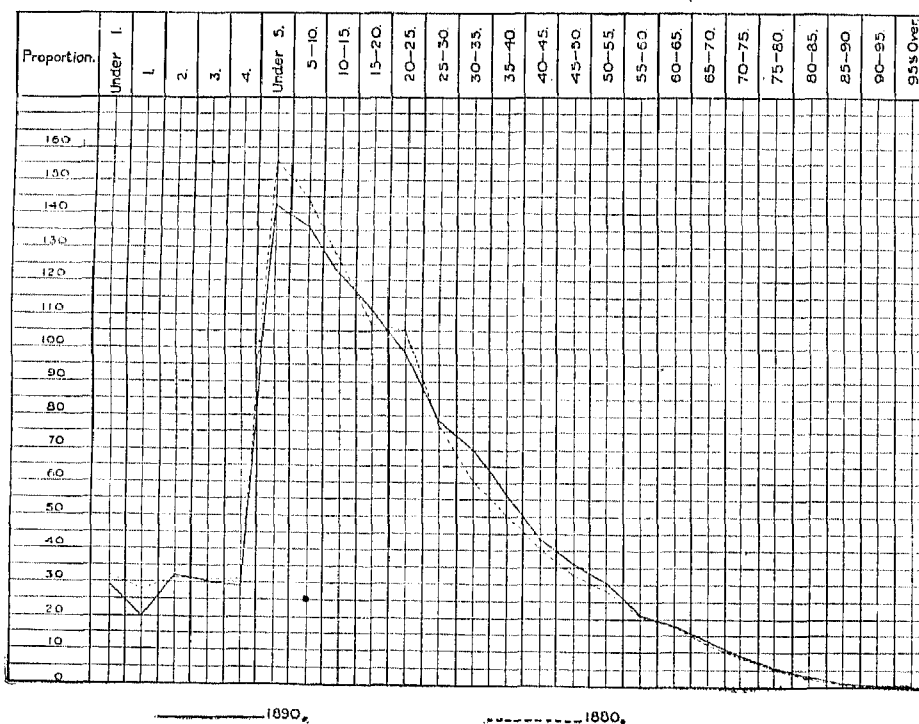
AGES.	ALL CLASSES.		NATIVE WHITES.		FOREIGN WHITES.		COLORED.	
	1890	1880	1890	1880	1890	1880	1890	1880
Under 1 year.....	25.1	28.8	29.0	32.9	0.5	0.0	27.3	33.9
1 year.....	17.2	25.0	20.0	28.4	0.7	1.5	20.4	29.2
2 years.....	27.7	28.4	32.3	32.0	1.0	2.0	31.0	34.4
3 years.....	26.1	27.5	30.2	30.9	2.9	2.3	29.5	33.1
4 years.....	26.1	27.0	30.8	31.2	3.0	2.5	30.6	34.2
Under 5 years.....	122.2	137.8	141.9	155.7	9.5	9.5	138.9	165.0
5 to 10 years.....	121.3	129.1	130.0	144.3	27.3	18.7	144.9	153.6
10 to 15 years.....	112.6	113.9	122.3	126.0	43.6	30.3	137.1	123.6
15 to 20 years.....	105.0	99.9	112.7	107.8	57.3	57.7	116.1	97.7
20 to 25 years.....	99.2	101.4	99.0	105.1	100.8	80.5	98.5	101.4
25 to 30 years.....	83.7	81.3	78.1	77.0	117.9	102.3	70.5	79.8
30 to 35 years.....	73.3	67.1	70.1	60.1	103.6	116.2	57.1	57.7
35 to 40 years.....	61.9	59.8	50.1	50.4	95.7	120.3	56.1	52.1
40 to 45 years.....	51.0	49.2	43.9	40.1	94.5	108.6	42.1	41.1
45 to 50 years.....	43.7	41.6	36.3	33.4	80.0	90.1	37.2	33.7
50 to 55 years.....	37.2	36.6	30.2	28.5	78.1	87.9	31.1	31.3
55 to 60 years.....	26.8	25.3	22.1	21.2	57.7	56.8	18.5	17.2
60 to 65 years.....	23.3	22.0	18.5	18.1	52.5	47.3	17.8	18.7
65 to 70 years.....	16.2	14.4	13.4	12.9	34.3	27.6	11.1	10.1
70 to 75 years.....	11.2	9.8	9.7	8.9	21.9	17.4	7.9	7.5
75 to 80 years.....	6.3	5.6	5.7	5.2	11.1	9.2	4.2	3.8
80 to 85 years.....	3.3	2.9	3.0	2.6	5.2	4.7	2.7	2.7
85 to 90 years.....	1.2	0.9	1.1	0.9	1.9	1.4	1.1	0.8
90 to 95 years.....	0.4	0.3	0.3	0.2	0.6	0.4	0.6	0.6
95 to 100 years.....	0.1	0.08	0.1	0.05	0.1	0.1	0.3	0.2
100 years and over.....	0.1	.....	0.0	.....	0.0	.....	0.4	.....

VITAL AND SOCIAL STATISTICS.

The following diagram shows the comparative proportions of the aggregate population at each age per 1,000 at known ages at the censuses of 1880 and 1890:



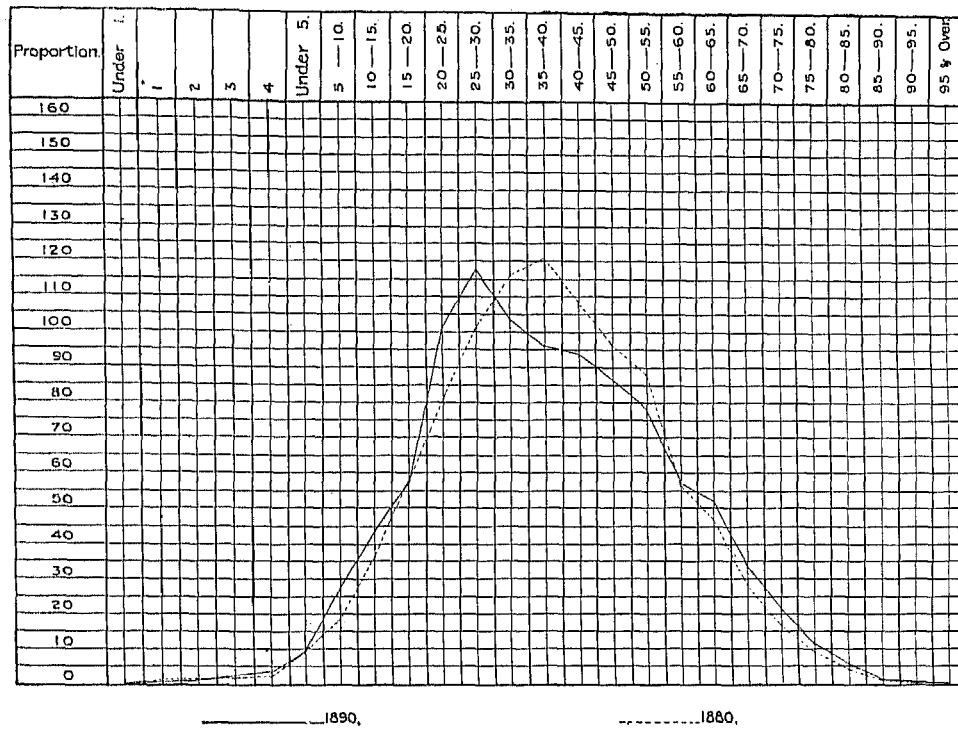
The following diagram shows the comparative proportions of the native born white population at each age per 1,000 at known ages at the censuses of 1880 and 1890:



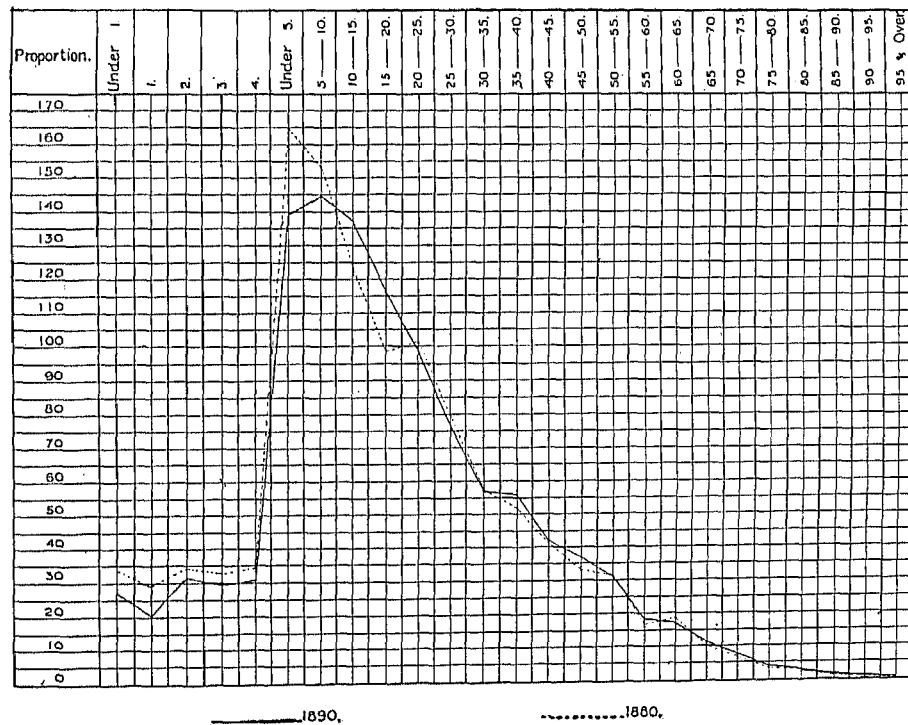
AGES OF THE LIVING POPULATION.

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The following diagram shows the comparative proportions of the foreign born white population at each age per 1,000 at known ages at the censuses of 1880 and 1890:



The following diagram shows the comparative proportions of the colored population at each age per 1,000 at known ages at the censuses of 1880 and 1890:



The most striking feature of the results shown by the preceding table and diagrams is the apparent decrease in the proportions of the population in the early years of life in 1890 as compared with 1880, this decrease being most marked in the colored.

It will be seen from the preceding table that the proportion of children of all classes under 5 years of age in 1890 was 122.2, while the corresponding proportion in 1880 was 137.8, the loss being 15.6 per 1,000. For the native born whites the loss in proportion under 5 was 13.8, and for the colored 26.1 per 1,000, the proportion of colored children under 5 years of age being 6.0 per 1,000 less than the proportion from 5 to 10 years of age.

The loss in proportion under 1 year of age was 3.7 per 1,000 for all classes, 3.3 per 1,000 for the native born whites, and 6.6 per 1,000 for the colored. The loss in the proportions from 1 to 2 years of age is still more marked, being 7.8 per 1,000 for all classes, 8.4 per 1,000 for the native born whites, and 8.8 for the colored.

A comparison of the proportions at and under each age given by states and territories for the aggregate population, the white population, and the colored population, in Tables 23 to 25, shows that while there was a general decrease throughout the country in the proportions in the early years of life, it was not uniform, several of the states showing an actual decrease in the number of children under 1 and under 5 years of age from the numbers enumerated in 1880, while showing a large increase in gross population during the decade.

The first area for which population data by ages was furnished for computation of death rates, etc., was the District of Columbia, and as a comparison of the results for 1890 with those of 1880 showed that, notwithstanding a gain of 52,768 in the gross population, there was an apparent loss of 332 children under 5 years of age the question at once arose as to the accuracy of the figures submitted, and it was thought that the discrepancy might possibly be due to errors arising from the application of a new method of (mechanical) tabulation. To determine this question the population schedules for the District of Columbia were withdrawn and an entirely independent and complete hand tally made by ages, which agreed almost exactly with the results obtained by the mechanical tabulation, and completely established the accuracy of the transcription and tabulation under the new method.

Subsequently an effort was made to obtain some data for mathematical correction of the age distribution of the population between 1 and 5 years of age, which is always incorrectly reported, and regarding which the discrepancies were much more marked than usual. As a means to this end the return of deaths in Massachusetts, secured from the registration records of that state, were compared with the births recorded in the state as given in the annual registration reports. It proved that the data available were not sufficient for determining the error in the age distribution, but the results showed that the census returns of the population under 1 and under 5 years of age in Massachusetts fell far short of the number surviving out of those born during the census year and the 4 years preceding the census year.

As the records of births and deaths in Massachusetts were both made under compulsory registration laws, and were entirely independent of the return of the living population made by the enumerators, these data were used to determine the probable error in the population figures showing the number of children under 1 and under 5 years of age, it being assumed that this error would be at least as small in Massachusetts as in any other state.

The number of births registered (which includes only those born within the state) in Massachusetts during the census year ending May 31, 1890, was 57,813, and of the deaths recorded as occurring during the same period 5,098 occurred at ages which would bring the births within the census year, but this includes a small number (41) of children of foreign birth, who should be excluded as not occurring out of the stated number of births, and the population returns also show a small number (498) of children of foreign birth which must be added to the survivors out of those born in the state, to give the living population under 1 year of age on June 1, 1890. The results are shown in the following statement:

CENSUS YEAR, 1890.

Births registered.....	57, 813
Born and died.....	5, 098
Less foreign born.....	41
	<hr/> 5, 057
Survivors of native birth.....	52, 756
Foreign born children under 1 year.....	498
	<hr/> 53, 254
Total children under 1 year.....	53, 254
Population under 1 year, as reported.....	43, 043
	<hr/> 10, 211
Deficiency	10, 211

From this statement it appears that there is a deficiency of 10,211 in the population of Massachusetts reported by the enumerators as under 1 year of age, in comparison with the survivors out of the number born during the year, or 23.72 per cent of the number reported. Adding the estimated deficiency of 2 per cent in the registration of births to the number registered, the deficiency in the population under 1 year of age would be 26.41 per cent,

and it is probable that the actual deficiency is not less than 25 per cent in round numbers. A similar calculation made for the census year 1880 shows an approximate deficiency of 5 per cent in the population of Massachusetts under 1 year of age at the Tenth Census.

For those under 5 years of age the results are shown in the following statement:

YEARS 1886 TO 1890.

Births	268,507
Deaths under 5 years.....	56,711
Of those born previously.....	6,000
Foreign born	1,329
	<u>7,329</u>
Corrected.....	49,382
Survivors.....	219,125
Foreign born, living.....	8,029
Total under 5 years	227,154
Population reported June 1, 1890	203,758
Deficiency	23,296

Allowing a deficiency of 2 per cent in the registration of births, as in case of those under 1 year of age, the deficiency would be 14.12 per cent of the population reported.

The corresponding deficiency in the population reported as under 5 years of age on June 1, 1880, is proportionally the same as the deficiency under 1 year of age, and is approximately stated as 2.80 per cent.

These comparisons show that the returns made in 1880 were more accurate, and that the proportions of children under 1 and under 5 years of age in 1880, given in the preceding tables, were more correct.

The following table shows the application of the deficiency percentages determined above to the figures for Massachusetts in comparison with those given in the population reports:

POPULATION, BIRTHS, DEATHS, AND RATES.	REPORTED.		CORRECTED.	
	1880	1890	1880	1890
Population.....	1,783,085	2,238,043		
Under 1 year.....	37,587	43,043	39,400	53,804
Under 5 years.....	170,307	203,758	184,328	232,284
Proportion per 100,000:				
Under 1 year.....	2,108	1,922	2,213	2,403
Under 5 years.....	10,056	9,101	10,338	10,375
Births	41,338	48,156	43,217	58,902
Birth rate.....	23.18	21.51	24.24	26.31
Deaths:				
Under 1 year.....	5,891	8,792		
Under 5 years.....	10,210	13,336		
Death rate per 1,000 population:				
Under 1 year.....	156.73	204.26	149.27	163.41
Under 5 years.....	56.90	65.45	55.44	57.41

It will be seen from this table that when the number of children under 1 and under 5 years of age in 1880 and 1890 is increased by the amount of the deficiencies calculated above, the proportions at each age in 1890 show a small increase over the proportions in 1880. It also shows that while the death rate at each age was somewhat higher than in 1880, the birth rate in 1890 was also higher than in 1880.

In the following table an application of the results obtained for Massachusetts is made to the figures reported for the United States:

POPULATION AND PROPORTION.	REPORTED.		CORRECTED.	
	1880	1890	1880	1890
Population.....	50,155,783	62,622,250		
Under 1 year	1,447,983	1,566,736	1,520,382	1,958,420
Under 5 years	6,914,516	7,634,693	7,108,122	8,703,550
Proportion:				
Under 1 year	2,887	2,502	3,031	3,127
Under 5 years	13,786	12,192	14,172	13,898

It will be seen from this table that the difference between the number of children reported as under 5 years of age (7,634,693) and the number estimated upon the basis of the 14 per cent deficiency shown for Massachusetts (8,703,550) is 1,068,857. Calculating the deficiency upon the basis of the corrected proportion in 1880, gives a difference of 1,240,132. The probable deficiency is at least 1,000,000.

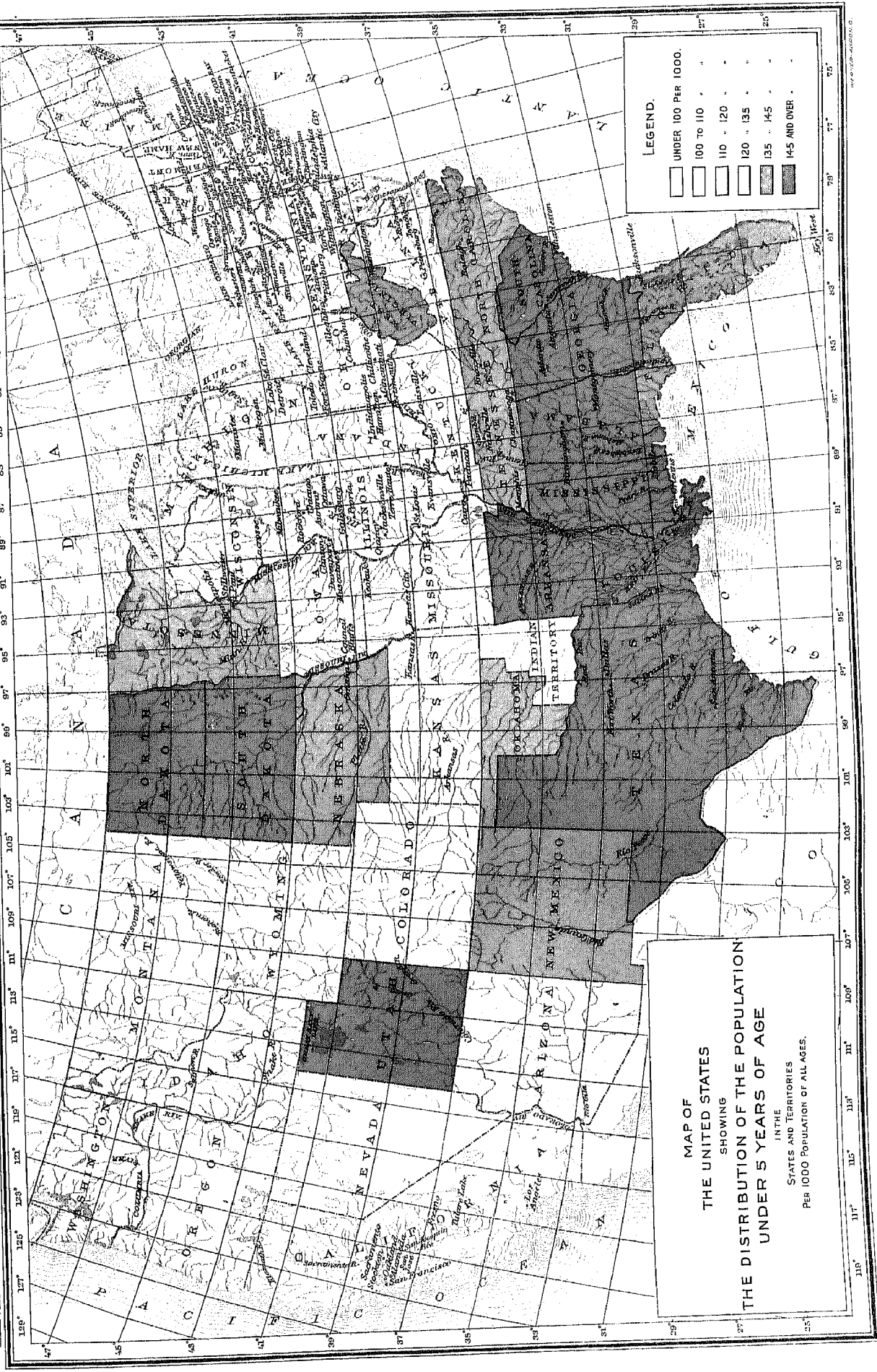
It will be seen from the tables of proportions given that the deficiency in the enumeration of the population extends to 15 years, and this deficiency is so general and so great as to render the death rates at ages under 15 years, and particularly those under 1 and under 5 years of age, unreliable, as they are generally much too high. The birth rates are, for the same reason, much too low. (See remarks under Births and Birth Rates, Section XII.) The effect of this deficiency is also shown to a marked degree in the life tables given for different areas, since in the computation of these tables the result of errors in the numbers living at early ages is carried forward and affects each higher age. The general expectation of life, as expressed in the tables given, is from 1 to 4 years less than it should be. (See remarks under Life Tables, Section XIII.)

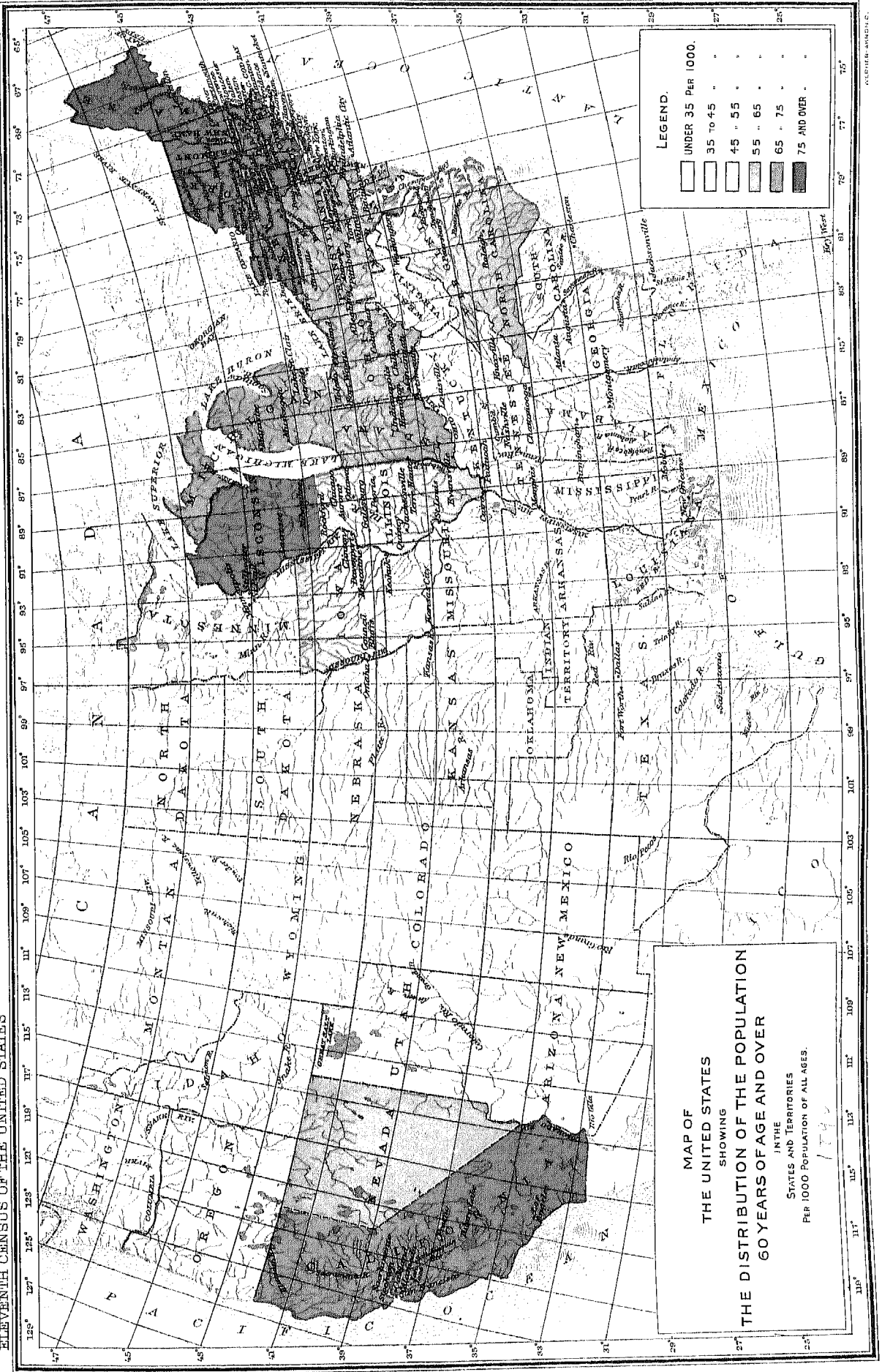
The following table shows the proportion of the living population reported under 5 years of age per 100,000 of all ages in each state and territory:

STATES AND TERRITORIES.	Per 100,000 of all ages.	STATES AND TERRITORIES.	Per 100,000 of all ages.	STATES AND TERRITORIES.	Per 100,000 of all ages.
New Hampshire	8,075	Michigan	11,361	West Virginia	13,973
Nevada	8,131	Wyoming	11,404	Nebraska	13,004
Maine	8,764	Pennsylvania	11,516	Oklahoma	14,189
District of Columbia	8,870	Arizona	11,585	North Carolina	14,436
California	8,876	Indiana	11,631	New Mexico	14,481
Vermont	9,006	Maryland	11,641	Alabama	14,512
Massachusetts	9,127	Iowa	12,227	Georgia	14,564
Rhode Island	9,226	Illinois	12,325	Louisiana	14,643
Connecticut	9,307	Missouri	12,833	South Carolina	14,790
New York	10,030	Wisconsin	12,844	Utah	14,854
Montana	10,140	Kansas	13,014	Mississippi	14,915
New Jersey	10,647	Virginia	13,033	South Dakota	14,987
Delaware	10,720	Idaho	13,279	Texas	15,107
Colorado	10,875	Kentucky	13,448	Arkansas	15,364
Ohio	10,802	Minnesota	13,657	North Dakota	16,218
Oregon	10,954	Tennessee	13,888		
Washington	11,012	Florida	13,911		

The distribution of the population under 5 years of age per 100,000 of all ages in the several states and territories is shown by map No. 29.

ELEVENTH CENSUS OF THE UNITED STATES





It will be seen from the preceding table and the accompanying map that the proportion of the living population under 5 years of age was lowest in the northeastern or New England states, and highest in the southern states, although, as shown by the preceding tables, the deficiency in the population reported under 5 years of age was greatest in the states having the largest percentage of colored population.

The following table shows the proportion of the living population 60 years of age and over per 100,000 of all ages in each state and territory:

STATES AND TERRITORIES.	Per 100,000 of all ages.	STATES AND TERRITORIES.	Per 100,000 of all ages.	STATES AND TERRITORIES.	Per 100,000 of all ages.
Wyoming.....	2,029	Louisiana.....	4,780	California.....	6,574
Montana.....	2,410	South Carolina.....	4,792	Pennsylvania.....	6,740
Oklahoma.....	2,859	Kansas.....	4,862	Maryland.....	6,754
Colorado.....	3,002	Oregon.....	4,992	New Jersey.....	6,948
Washington.....	3,194	Tennessee.....	5,007	Michigan.....	6,961
Arkansas.....	3,470	Missouri.....	5,021	Delaware.....	7,075
North Dakota.....	3,582	Utah.....	5,346	Ohio.....	7,482
Arizona.....	3,600	Minnesota.....	5,373	Wisconsin.....	7,592
Texas.....	3,697	West Virginia.....	5,423	New York.....	7,873
Nebraska.....	3,782	Kentucky.....	5,491	Rhode Island.....	7,901
Idaho.....	3,913	Nevada.....	5,512	Massachusetts.....	8,419
South Dakota.....	4,186	North Carolina.....	5,534	Connecticut.....	9,315
Florida.....	4,249	Illinois.....	5,902	Maine.....	11,564
Mississippi.....	4,400	Virginia.....	6,267	Vermont.....	12,159
New Mexico.....	4,490	District of Columbia.....	6,314	New Hampshire.....	12,223
Alabama.....	4,549	Iowa.....	6,534		
Georgia.....	4,723	Indiana.....	6,574		

The distribution of the population 60 years of age and over per 1,000 of all ages in the several states and territories is shown by map No. 30.

The preceding table and map show that the proportion of the living population reported as 60 years of age and over was highest in the northeastern or New England states. The lowest proportion of this age group occurred in the northwestern and middle southern states.

A P P E N D I X.

DESCRIPTION OF AREAS FOR WHICH DATA ARE GIVEN IN THIS REPORT.

a. The registration states are as follows: Connecticut, Delaware, District of Columbia, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, and Vermont.

b. The cities in the registration states are the following: Adams, Mass., Albany, N. Y., Amesbury, Mass., Amsterdam, N. Y., Andover, Mass., Arlington, Mass., Athol, Mass., Atlantic city, N. J., Attleboro, Mass., Auburn, N. Y., Batavia, N. Y., Bayonne, N. J., Beverly, Mass., Binghamton, N. Y., Blackstone, Mass., Bordentown, N. J., Boston, Mass., Brattleboro, Vt., Bridgeport, Conn., Bridgeton, N. J., Brockton, Mass., Brookline, Mass., Brooklyn, N. Y., Buffalo, N. Y., Burlington, N. J., Burlington, Vt., Cambridge, Mass., Camden, N. J., Canandaigua, N. Y., Chelsea, Mass., Chicopee, Mass., Clinton, Mass., Cohoes, N. Y., Concord, N. H., Corning, N. Y., Cortland, N. Y., Danbury, Conn., Danvers, Mass., Dedham, Mass., Dover, N. H., Dunkirk, N. Y., Edgewater, N. Y., Elizabeth, N. J., Elmira, N. Y., Everett, Mass., Fall River, Mass., Fitchburg, Mass., Flushing, N. Y., Framingham, Mass., Gardner, Mass., Geneva, N. Y., Glens Falls, N. Y., Gloucester, Mass., Gloucester, N. J., Gloversville, N. Y., Grafton, Mass., Greenbush, N. Y., Harrison, N. J., Hartford, Conn., Haverhill, Mass., Hoboken, N. J., Holyoke, Mass., Hoosick Falls, N. Y., Hornellsville, N. Y., Hudson, N. Y., Hyde Park, Mass., Ithaca, N. Y., Jamestown, N. Y., Jersey city, N. J., Johnstown, N. Y., Keene, N. H., Kingston, N. Y., Lausenburg, N. Y., Lawrence, Mass., Leominster, Mass., Leroy, N. Y., Little Falls, N. Y., Lockport, N. Y., Long Branch, N. J., Long Island city, N. Y., Lowell, Mass., Lynn, Mass., Malden, Mass., Malone, N. Y., Manchester, N. H., Marblehead, Mass., Marlboro, Mass., Matteawan, N. Y., Medford, Mass., Medina, N. Y., Melrose, Mass., Meriden, Conn., Middleboro, Mass., Middletown, Conn., Middletown, N. Y., Milford, Mass., Millville, N. J., Montague, Mass., Morristown, N. J., Mount Vernon, N. Y., Nashua, N. H., Natick, Mass., Newark, N. J., New Bedford, Mass., New Brunswick, N. J., Newburg, N. Y., Newburyport, Mass., New Haven, Conn., New London, Conn., Newport, R. I., New Rochelle, N. Y., Newton, Mass., New York, N. Y., Niagara Falls, N. Y., North Adams, Mass., Northampton, Mass., North Attleboro, Mass., Norwich, Conn., Norwich, N. Y., Nyack, N. Y., Ogdensburg, N. Y., Olean, N. Y., Oneida, N. Y., Oneonta, N. Y., Orange, N. J., Oswego, N. Y., Palmer, Mass., Passaic, N. J., Paterson, N. J., Pawtucket, R. I., Peabody, Mass., Peekskill, N. Y., Perth Amboy, N. J., Phillipsburg, N. J., Pittsfield, Mass., Plainfield, N. J., Plattsburg, N. Y., Plymouth, Mass., Port Jervis, N. Y., Portsmouth, N. H., Poughkeepsie, N. Y., Providence, R. I., Quincy, Mass., Rahway, N. J., Revere, Mass., Rochester, N. Y., Rockland, Mass., Rockville, Conn., Rome, N. Y., Rutland, Vt., Salem, Mass., Salem, N. J., Saratoga Springs, N. Y., Schenectady, N. Y., Seneca Falls, N. Y., Singing, N. Y., Somerville, Mass., Southbridge, Mass., Spencer, Mass., Springfield, Mass., Stoneham, Mass., Syracuse, N. Y., Tarrytown, N. Y., Taunton, Mass., Tonawanda, N. Y., Trenton, N. J., Troy, N. Y., Union, N. J., Utica, N. Y., Wakefield, Mass., Waltham, Mass., Ware, Mass., Washington, D. C., Waterbury, Conn., Watertown, Mass., Watertown, N. Y., Webster, Mass., Westboro, Mass., Westfield, Mass., West Troy, N. Y., Weymouth, Mass., Whitehall, N. Y., Willimantic, Conn., Wilmington, Del., Woburn, Mass., Woonsocket, R. I., Worcester, Mass., and Yonkers, N. Y.

c. The rural part of the registration states includes all of such states not included in the cities enumerated above (paragraph b).

d. The registration cities in the nonregistration states are the following: Alameda, Cal., Allegheny, Pa., Altoona, Pa., Atlanta, Ga., Augusta, Ga., Aurora, Ill., Baltimore, Md., Birmingham, Ala., Charleston, S. C., Chattanooga, Tenn., Chicago, Ill., Chillicothe, Ohio, Cincinnati, Ohio, Cleburne, Tex., Cleveland, Ohio, Columbus, Ohio, Council Bluffs, Iowa, Dallas, Tex., Davenport, Iowa, Dayton, Ohio, Denver, Colo., Detroit, Mich., Dubuque, Iowa, Erie, Pa., Evansville, Ind., Fort Smith, Ark., Fort Wayne, Ind., Fort Worth, Tex., Fresno, Cal., Galesburg, Ill., Galveston, Tex., Hamilton, Ohio, Indianapolis, Ind., Jackson, Miss., Jacksonville, Ill., Kansas city, Mo., Keokuk, Iowa, Knoxville, Tenn., Lacrosse, Wis., Laporte, Ind., Lewiston, Me., Los Angeles, Cal., Louisville, Ky., Lynchburg, Va., Manistee, Mich., Memphis, Tenn., Milwaukee, Wis., Minneapolis, Minn., Mobile, Ala., Montgomery, Ala., Muscatine, Iowa, Muskegon, Mich., Nashville, Tenn., New Orleans, La., Norristown, Pa., Oakland, Cal., Omaha, Neb., Ottawa, Ill., Paducah, Ky., Peoria, Ill., Petersburg, Va., Philadelphia, Pa., Pittsburg, Pa.,

Portsmouth, Ohio, Raleigh, N. C., Reading, Pa., Richmond, Va., Rockford, Ill., Sacramento, Cal., San Antonio, Tex., San Francisco, Cal., San Jose, Cal., Savannah, Ga., Scranton, Pa., Springfield, Ohio, St. Louis, Mo., St. Paul, Minn., Stillwater, Minn., Stockton, Cal., Terre Haute, Ind., Titusville, Pa., Toledo, Ohio, and York, Pa.

e. The registration area consists of the registration states (parapgraph a), including the cities (paragraph b) and the registration cities in the nonregistration states (paragraph d).

f. The total registration cities (sometimes designated as 271 registration cities) includes those enumerated in paragraphs b and d above.

g. The cities of 100,000 population and upward are the following: New York, Chicago, Philadelphia, Brooklyn, St. Louis, Boston, Baltimore, San Francisco, Cincinnati, Cleveland, Buffalo, New Orleans, Pittsburg, Washington, Detroit, Milwaukee, Newark, Minneapolis, Jersey city, Louisville, Omaha, Rochester, St. Paul, Kansas city (Mo.), Providence, Denver, Indianapolis, and Allegheny.

h. The 54 ward cities, i. e., those in which the return of deaths was compiled by wards, are the following: Albany, N. Y., Allegheny, Pa., Atlanta, Ga., Baltimore, Md., Boston, Mass., Bridgeport, Conn., Brooklyn, N. Y., Buffalo, N. Y., Cambridge, Mass., Charleston, S. C., Chicago, Ill., Cincinnati, Ohio, Cleveland, Ohio, Columbus, Ohio, Detroit, Mich., Erie, Pa., Evansville, Ind., Fall River, Mass., Fort Wayne, Ind., Galveston, Tex., Hartford, Conn., Holyoke, Mass., Indianapolis, Ind., Jersey city, N. J., Kansas city, Mo., Lawrence, Mass., Los Angeles, Cal., Louisville, Ky., Lowell, Mass., Lynn, Mass., Memphis, Tenn., Milwaukee, Wis., Minneapolis, Minn., Mobile, Ala., Newark, N. J., New Haven, Conn., New Orleans, La., New York, N. Y., Oakland, Cal., Philadelphia, Pa., Pittsburg, Pa., Reading, Pa., Richmond, Va., St. Louis, Mo., St. Paul, Minn., Salem, Mass., San Antonio, Tex., San Francisco, Cal., Scranton, Pa., Springfield, Mass., Toledo, Ohio, Washington, D. C., Wilmington, Del., and Worcester, Mass.

i. The Metropolitan district includes the following counties, namely: New York, Kings, Queens, Richmond, Westchester, in New York; Hudson and Essex, all inclusive of the cities therein, and the cities of Paterson and Passaic, in New Jersey.

k. The grand divisions for which certain tables are presented are composed of states, as follows:

Grand Division A includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont.

Grand Division B includes Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, and Virginia.

Grand Division C includes Alabama, Arkansas, Kentucky, Louisiana, Mississippi, Tennessee, and Texas.

Grand Division D includes Arizona, Colorado, Idaho, Illinois, Indiana, Indian territory, Iowa, Kansas, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Mexico, North Dakota, Ohio, Oklahoma, South Dakota, Utah, West Virginia, Wisconsin, and Wyoming.

Grand Division E includes California, Oregon, and Washington.

A list of the registration cities in each of the grand divisions is given on page 583, Part III.

1. The grand groups are composed of state groups, as follows:

Grand Group 1, North Atlantic Coast region, includes Connecticut 1, Maine 1, Massachusetts 1, New Hampshire 1, Rhode Island.

Grand Group 2, Middle Atlantic Coast region, includes Delaware, District of Columbia, Maryland 1, New Jersey 1, New York 1, Virginia 1.

Grand Group 3, South Atlantic Coast region, includes Georgia 1, North Carolina 1, South Carolina 1.

Grand Group 4, Gulf Coast region, includes Alabama 1, Florida, Louisiana 1, Mississippi 1, Texas 1.

Grand Group 5, Northeastern hills and plateaus, includes Connecticut 2, Maine 2, New Hampshire 2, New York 2, Vermont.

Grand Group 6, Central Appalachian region, includes Maryland 2, New Jersey 2, New York 3, Pennsylvania 1.

Grand Group 7, Region of the Great Northern Lakes, includes Illinois 1, Indiana 1, Michigan 1, New York 4, Ohio 1, Wisconsin 1.

Grand Group 8, Interior plateau, includes New York 5, North Carolina 2, Pennsylvania 2, Virginia 2.

Grand Group 9, Southern Central Appalachian region, includes Alabama 2, Georgia 2, Kentucky 1, North Carolina 3, South Carolina 2, Tennessee 1, Virginia 3, West Virginia 1.

Grand Group 10, Ohio River belt, includes Indiana 2, Kentucky 2, Ohio 2, West Virginia 2.

Grand Group 11, Southern Interior plateau, includes Alabama 3, Georgia 3, Mississippi 2, South Carolina 3, Tennessee 2.

Grand Group 12, South Mississippi River belt, includes Arkansas 1, Kentucky 3, Louisiana 2, Mississippi 3, Tennessee 3.

Grand Group 13, North Mississippi River belt, includes Illinois 2, Iowa 1, Minnesota 1, Missouri 1, Wisconsin, 2.

Grand Group 14, Southwest Central region, includes Arkansas 2, Louisiana 3, Missouri 2, Texas 2, Indian territory.

Grand Group 15, Central region, plains and prairies, includes Indiana 3, Kentucky 4, Ohio 3, Tennessee 4.

Grand Group 16, Prairie region, includes Illinois 3, Iowa 2, Kansas 1, Minnesota 2, Missouri 3, Nebraska 1, North Dakota 1, South Dakota 1, Wisconsin 3.

Grand Group 17, Missouri River belt, includes Iowa 3, Missouri 4, Nebraska 2, North Dakota 2, South Dakota 2.

Grand Group 18, Region of the Western plains, includes Colorado 1, Kansas 2, Montana 1, Nebraska 3, New Mexico 1, North Dakota 3, Oklahoma, South Dakota 3, Texas 3, Wyoming 1.

Grand Group 19, Heavily-timbered region of the Northwest, includes Michigan 2, Minnesota 3, Wisconsin 4.

Grand Group 20, Cordilleran region, includes Arizona, California 1, Colorado 2, Idaho, Montana 2, Nevada, New Mexico 2, Oregon 1, Utah, Washington 1, Wyoming 2.

Grand Group 21, Pacific Coast region, includes California 2, Oregon 2, Washington 2.

The registration cities located in each grand group are enumerated in the table given on page 203, Section IX, of this volume.

m. The state groups are composed of certain counties in each state, as follows:

ALABAMA.

GROUP 1.

Baldwin,

Mobile.

GROUP 2.

Blount,
Calhoun,
Cherokee,
Cleburne,
Colbert,Cullman,
DeKalb,
Etowah,
Franklin,Jackson,
Jefferson,
Lauderdale,
Lawrence,Limestone,
Madison,
Marshall,
Morgan,St. Clair,
Shelby,
Walker,
Winston.

GROUP 3.

Autauga,
Barbour,
Bibb,
Bullock,
Butler,
Chambers,
Chilton,
Choctaw,
Clarke,Clay,
Coffee,
Concord,
Coosa,
Covington,
Crenshaw,
Dale,
Dallas,
Elmore,Escambia,
Fayette,
Geneva,
Greene,
Hale,
Henry,
Lamar,
Lee,
Lowndes,Macon,
Marengo,
Marion,
Mouroe,
Montgomery,
Perry,
Pikens,
Pike,Randolph,
Russell,
Sumter,
Talladega,
Tallapoosa,
Tuscaloosa,
Washington,
Wilcox.

This territory forms one group.

ARIZONA.

ARKANSAS.

GROUP 1.

Chicot,
Craighead,
Crittenden,Cross,
Desha,
Jefferson,Lee,
Lincoln,Mississippi,
Phillips,Poinsett,
St. Francis.

GROUP 2.

Arkansas,
Ashley,
Baxter,
Benton,
Boone,
Bradley,
Calhoun,
Carroll,
Clark,
Clay,
Cleburne,
Cleveland,
Columbia,Conway,
Crawford,
Dallas,
Drew,
Faulkner,
Franklin,
Fulton,
Garland,
Grant,
Greene,
Hempstead,
Hot Spring,
Howard,Independence,
Izard,
Jackson,
Johnson,
Lafayette,
Lawrence,
Little River,
Logan,
Lonoke,
Madison,
Marion,
Miller,
Monroe,Montgomery,
Nevada,
Newton,
Ouachita,
Perry,
Pike,
Polk,
Pope,
Prairie,
Pulaski,
Randolph,
Saline,Scott,
Searcy,
Sebastian,
Sovier,
Sharp,
Stone,
Union,
Van Buren,
Washington,
White,
Woodruff,
Yell.

VITAL AND SOCIAL STATISTICS.

CALIFORNIA.

GROUP 1.

Alpine,
Amador,
Butte,
Calaveras,
Colusa,
Eldorado,
Fresno,

Inyo,
Kern,
Lake,
Lassen,
Mariposa,
Merced,
Modoc,

Mono,
Napa,
Nevada,
Placer,
Plumas,
Sacramento,

San Bernardino,
San Joaquin,
Shasta,
Sierra,
Siskiyou,
Stanislaus,

Sutter,
Tehama,
Tulare,
Tuolumne,
Yolo,
Yuba.

GROUP 2.

Alameda,
Contra Costa,
Del Norte,
Humboldt,
Los Angeles,

Marin,
Mendocino,
Monterey,
Orange,

San Benito,
San Diego,
San Francisco,
San Luis Obispo,

San Mateo,
Santa Barbara,
Santa Clara,
Santa Cruz,

Solano,
Sonoma,
Trinity,
Ventura.

COLORADO.

GROUP 1.

Arapahoe,
Baca,
Bent,
Cheyenne,
Douglas,

Elbert,
El Paso,
Kiowa,
Kit Carson,

Las Animas,
Lincoln,
Logan,
Morgan,

Otero,
Phillips,
Prowers,
Pueblo,

Sedgwick,
Washington,
Weld,
Yuma.

GROUP 2.

Archuleta,
Boulder,
Chaffee,
Clear Creek,
Conejos,
Costilla,
Custer,

Delta,
Dolores,
Eagle,
Fremont,
Garfield,
Gilpin,
Grand,

Gunnison,
Hinsdale,
Huerfano,
Jefferson,
Lake,
La Plata,
Larimer,

Mesa,
Montezuma,
Montrose,
Ouray,
Park,
Pitkin,
Rio Blanco,

Rio Grande,
Routt,
Saguache,
San Juan,
San Miguel,
Summit.

CONNECTICUT.

GROUP 1.

Fairfield,

Middlesex,

New Haven,

New London,

GROUP 2.

Hartford,

Litchfield,

Tolland,

Windham.

DELAWARE.

This state forms one group.

DISTRICT OF COLUMBIA.

This district forms one group.

FLORIDA.

GEORGIA.

GROUP 1.

Appling,
Bryan,
Bulloch,
Camden,

Charlton,
Chatham,
Clinch,
Echols,

Effingham,
Glynn,
Liberty,
Lowndes,

McIntosh,
Pierce,
Screven,

Tattnall,
Ware,
Wayne.

DESCRIPTION OF AREAS.

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GEORGIA—Continued.

GROUP 2.

Banks,
Bartow,
Catoosa,
Chattooga,
Cherokee,
Cobb,
Dade,

Dawson,
DeKalb,
Fannin,
Floyd,
Forsyth,
Franklin,
Fulton,

Gilmer,
Gordon,
Gwinnett,
Habersham,
Hall,
Haralson,
Hart,

Jackson,
Lumpkin,
Madison,
Milton,
Murray,
Paulding,
Pickens,

Polk,
Rabun,
Towns,
Union,
Walker,
White,
Whitfield,

GROUP 3.

Baker,
Baldwin,
Berrien,
Bibb,
Brooks,
Burke,
Butts,
Calhoun,
Campbell,
Carroll,
Chattahoochee,
Clarke,
Clay,
Clayton,
Coffee,
Colquitt,
Columbia,

Coweta,
Crawford,
Decatur,
Dodge,
Dooly,
Dougherty,
Douglas,
Early,
Elbert,
Emanuel,
Fayette,
Glascok,
Greene,
Hancock,
Harris,
Hoard,
Henry,

Houston,
Irwin,
Jasper,
Jefferson,
Johnson,
Jones,
Laurens,
Lee,
Lincoln,
McDuffie,
Macon,
Marion,
Meriwether,
Miller,
Mitchell,
Monroe,
Montgomery,

Morgan,
Muscogee,
Newton,
Oconee,
Oglethorpe,
Pike,
Pulaski,
Putman,
Quitman,
Randolph,
Richmond,
Rockdale,
Schley,
Spalding,
Stewart,
Sumter,
Talbot,

Taliaferro,
Taylor,
Telfair,
Terrell,
Thomas,
Troup,
Twiggs,
Upson,
Walton,
Warren,
Washington,
Webster,
Wilcox,
Wilkes,
Wilkinson,
Worth.

IDAHO.

This state forms one group.

ILLINOIS.

GROUP 1.

Cook,

Lake.

GROUP 2.

Adams,
Alexander,
Calhoun,
Carroll,
Gallatin,

Hancock,
Hardin,
Henderson,
Jackson,
Jersey,

Jo Daviess,
Johnson,
Madison,
Massac,
Mercer.

Monroe,
Pike,
Pope,
Pulaski,
Randolph,

Rock Island,
St. Clair,
Union,
Whiteside.

GROUP 3.

Bond,
Boone,
Brown,
Bureau,
Cass,
Champaign,
Christian,
Clark,
Clay,
Clinton,
Coles,
Crawford,
Cumberland,
DeKalb,
Dewitt,
Douglas,

Dupage,
Edgar,
Edwards,
Effingham,
Fayette,
Ford,
Franklin,
Fulton,
Greene,
Grundy,
Hamilton,
Henry,
Iroquois,
Jasper,
Jefferson,

Kane,
Kankakee,
Kendall,
Knox,
Lasalle,
Lawrence,
Lee,
Livingston,
Logan,
McDonough,
McHenry,
McLean,
Macon,
Macoupin,
Marion,

Marshall,
Mason,
Menard,
Montgomery,
Morgan,
Moultrie,
Ogle,
Peoria,
Perry,
Piatt,
Putnam,
Richland,
Saline,
Sangamon,
Schuyler,

Scott,
Shelby,
Stark,
Stephenson,
Tazewell,
Vermilion,
Wabash,
Warren,
Washington,
Wayne,
White,
Will,
Williamson,
Winnebago,
Woodford.

VITAL AND SOCIAL STATISTICS.

INDIANA.

GROUP 1.

Lake,

Laporte,

Porter.

GROUP 2.

Clark,
Crawford,
Dearborn,
Dubois,
Floyd,Gibson,
Harrison,
Jefferson,
Jennings,Ohio,
Orange,
Perry,
Pike,Posey,
Ripley,
Scott,
Spencer,Switzerland,
Vanderburg,
Warrick,
Washington.

GROUP 3.

Adams,
Allen,
Bartholomew,
Benton,
Blackford,
Boone,
Brown,
Carroll,
Cass,
Clay,
Clinton,
Davies,
Decatur,
DeKalb,Delaware,
Elkhart,
Fayette,
Fountain,
Franklin,
Fulton,
Grant,
Greene,
Hamilton,
Hancock,
Hendricks,
Henry,
Howard,
Huntington,Jackson,
Jasper,
Jay,
Johnson,
Knox,
Kosciusko,
Lagrange,
Lawrence,
Madison,
Marion,
Marshall,
Martin,
Miami,
Monroe,Montgomery,
Morgan,
Newton,
Noble,
Owen,
Parks,
Pulaski,
Putnam,
Randolph,
Rush,
St. Joseph,
Shelby,
Starko,Steuben,
Sullivan,
Tippecanoe,
Tipton,
Union,
Vermilion,
Vigo,
Wabash,
Warren,
Wayne,
Wells,
White,
Whitley.

INDIAN TERRITORY.

This territory forms one group.

IOWA.

GROUP 1.

Allamakee,
Clayton,Clinton,
Des Moines,Dubuque,
Jackson,Lee,
Louisa,Muscatine,
Scott.

GROUP 2.

Adair,
Adams,
Appanoose,
Audubon,
Benton,
Blackhawk,
Boone,
Bremer,
Buchanan,
Buena Vista,
Butler,
Calhoun,
Carroll,
Cass,
Cedar,
Cerro Gordo,Cherokee,
Chickasaw,
Clarke,
Clay,
Crawford,
Dallas,
Davis,
Decatur,
Delaware,
Dickinson,
Emmet,
Fayette,
Floyd,
Franklin,
Greene,
Grundy,Guthrie,
Hamilton,
Hancock,
Hardin,
Henry,
Howard,
Humboldt,
Ida,
Iowa,
Jasper,
Jefferson,
Johnson,
Jones,
Keokuk,
Kossuth,
Linn,Lucas,
Madison,
Mahaska,
Marion,
Marshall,
Mitchell,
Monroe,
Montgomery,
O'Brien,
Osceola,
Page,
Palo Alto,
Pocahontas,
Polk,
Poweshiek,
Ringgold,Sac,
Shelby,
Story,
Tama,
Taylor,
Union,
Van Buren,
Wapello,
Warren,
Washington,
Wayne,
Webster,
Winnebago,
Winneschick,
Worth,
Wright.

GROUP 3.

Fremont,
Harrison,Lyon,
Mills,Monona,
Plymouth,Pottawattamie,
Sioux,

Woodbury.

DESCRIPTION OF AREAS.

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KANSAS.

GROUP 1.

Allen,
Anderson,
Atchison,
Bourbon,
Brown,
Butler,
Chase,
Chautauqua,
Cherokee,
Clay,
Cloud,
Coffey,

Cowley,
Crawford,
Dickinson,
Doniphan,
Douglas,
Elk,
Ellsworth,
Franklin,
Geary,
Greenwood,
Harper,
Harvey,

Jackson,
Jefferson,
Jewell,
Johnson,
Kingman,
Labette,
Leavenworth,
Lincoln,
Linn,
Lyon,
McPherson,
Marion,

Marshall,
Miami,
Mitchell,
Montgomery,
Morris,
Nemaha,
Neosho,
Osage,
Ottawa,
Pottawatomie,
Reno,
Republic,

Rice,
Riley,
Saline,
Sedgwick,
Shawnee,
Sumner,
Wabauunsee,
Washington,
Wilson,
Woodson,
Wyandotte.

GROUP 2.

Barber,
Barton,
Cheyenne,
Clark,
Comanche,
Decatur,
Edwards,
Ellis,
Finney,
Ford,

Garfield,
Gove,
Graham,
Grant,
Gray,
Grooley,
Hamilton,
Haskell,
Hodgeman,
Kearny,

Kiowa,
Lane,
Logan,
Meade,
Morton,
Ness,
Norton,
Osborne,
Pawnee,

Phillips,
Pratt,
Rawlins,
Rooks,
Rush,
Russell,
Scott,
Seward,
Sheridan,

Sherman,
Smith,
Stafford,
Stanton,
Stevens,
Thomas,
Trego,
Wallace,
Wichita.

KENTUCKY.

GROUP 1.

Bell,
Boyd,
Breathitt,
Carter,
Clay,
Clinton,
Elliott,

Estill,
Floyd,
Harlan,
Jackson,
Johnson,
Knott,
Knox,

Laurel,
Lawrence,
Leo,
Leslie,
Letcher,
Magoffin,

Martin,
Menifee,
Morgan,
Owsley,
Perry,
Pike,

Powell,
Pulaski,
Rockcastle,
Wayne,
Whitley,
Wolfe.

GROUP 2.

Boone,
Bracken,
Breckinridge,
Campbell,
Carroll,

Crittenden,
Davies,
Gallatin,
Greenup,

Hancock,
Henderson,
Jefferson,
Kenton,

Lewis,
Livingston,
McCracken,
Mason,

Mende,
Oldham,
Trimble,
Union.

GROUP 3.

Ballard,

Carlisle,

Fulton,

Hickman.

GROUP 4.

Adair,
Allen,
Anderson,
Barren,
Bath,
Bourbon,
Boyle,
Bullitt,
Butler,
Caldwell,
Calloway,
Casey,
Christian,

Clark,
Cumberland,
Edmonson,
Fayette,
Fleming,
Franklin,
Garrard,
Grant,
Graves,
Grayson,
Green,
Hardin,
Harrison,

Hart,
Henry,
Hopkins,
Jessamine,
Larne,
Lincoln,
Logan,
Lyon,
McLean,
Madison,
Marion,
Marshall,

Mercer,
Metcalfe,
Monroe,
Montgomery,
Muhlenberg,
Nelson,
Nicholas,
Ohio,
Owen,
Pendleton,
Robertson,
Rowan,

Russell,
Scott,
Shelby,
Simpson,
Spencer,
Taylor,
Todd,
Trigg,
Warren,
Washington,
Webster,
Woodford.

VITAL AND SOCIAL STATISTICS.

LOUISIANA.

GROUP 1.

Acadia,
Ascension,
Assumption,
Calcasieu,
Cameron,
East Baton Rouge,

Iberia,
Iberville,
Jefferson,
Lafayette,
Lafourche,
Livingston,

Orleans,
Plaquemines,
St. Bernard,
St. Charles,
St. Helena,
St. James,

St. John the Baptist,
St. Landry,
St. Martin,
St. Mary,
St. Tammany,

Tangipahoa,
Terrebonne,
Vermilion,
Washington,
West Baton Rouge.

GROUP 2.

Avoyelles,
Concordia,

East Carroll,
East Feliciana,

Madison,
Pointe Coupee,

Tensas,
West Carroll,

West Feliciana,

GROUP 3.

Bienville,
Bossier,
Caddo,
Caldwell,
Catahoula,

Claiborne,
De Soto,
Franklin,
Grant,
Jackson,

Lincoln,
Morehouse,
Natchitoches,
Ouachita,

Rapides,
Red River,
Richland,
Sabine,

Union,
Vernon,
Webster,
Winn.

MAINE.

GROUP 1.

Androscoggin,
Cumberland,

Hancock,
Kennebec,

Knox,
Lincoln,

Sagadahoc,
Waldo,

Washington,
York.

GROUP 2.

Aroostook,

Franklin,

Oxford,

Penobscot,

Piscata

Somerset

MARYLAND.

GROUP 1.

Anne Arundel,
Baltimore,
Baltimore city,
Calvert,

Caroline,
Carroll,
Cecil,
Charles,

Dorchester,
Harford,
Howard,
Kent,

Montgomery,
Prince George,
Queen Anne,
St. Mary,

Somerset,
Talbot,
Wicomico,
Worcester.

GROUP 2.

Allegany,

Frederick,

Garrett,

Washington.

MASSACHUSETTS.

GROUP 1.

Barnstable,
Bristol,

Dukes,
Essex,

Middlesex,
Nantucket,

Norfolk,
Plymouth,

Suffolk.

GROUP 2.

Berkshire,

Franklin,

Hampden,

Hampshire,

Worcester.

MICHIGAN.

GROUP 1.

Alcona,
Alger,
Allegan,
Alpena,
Antrim,
Arenac,
Baraga,
Bay,
Benzie,

Berrien,
Charlevoix,
Cheboygan,
Chippewa,
Delta,
Emmet,
Gogebic,
Grand Traverse,
Houghton,

Huron,
Iosco,
Iron,
Isle Royal,
Keweenaw,
Leelanaw,
Luce,
Mackinac,
Macomb,

Manistee,
Manitou,
Marquette,
Mason,
Menominee,
Monroe,
Muskegon,
Oceana,
Ontonagon,

Ottawa,
Presque Isle,
Saginaw,
St. Clair,
Sanilac,
Schoolcraft,
Tuscola,
Van Buren,
Wayne.

MICHIGAN—Continued.

GROUP 2.

Barry,
Branch,
Calhoun,
Cass,
Clare,
Clinton,
Crawford,
Eaton,

Genesee,
Gladwin,
Gratiot,
Hillsdale,
Ingham,
Ionia,
Isabella,
Jackson,

Kalamazoo,
Kalkaska,
Kent,
Lake,
Lapeer,
Lenawee,
Livingston,
Mecosta,

Midland,
Missaukee,
Montcalm,
Montgomery,
Newaygo,
Oakland,
Ogemaw,
Oscoda,

Oscoda,
Osego,
Roscommon,
St. Joseph,
Shiawassee,
Washtenaw,
Wexford.

MINNESOTA.

GROUP 1.

Anoka,
Benton,
Crow Wing,

Dakota,
Goodhugh,
Hennepin.

Houston,
Morrison,
Ramsey,

Sherburne,
Stearns,
Wabasha.

Washington,
Winona,
Wright.

GROUP 2.

Bigstone,
Blue Earth,
Brown,
Carver,
Chippewa,
Cottonwood,
Dodge,
Douglas,
Faribault,

Fillmore,
Freeborn,
Grant,
Jackson,
Kandiyohi,
Lac qui Parle,
Lesueur,
Lincoln,
Lyon,

McLeod,
Martin,
Meeker,
Mower,
Murray,
Nicollet,
Nobles,
Olmstead,

Pipestone,
Pope,
Redwood,
Renville,
Rice,
Rock,
Scott,
Sibley,

Steele,
Stevens,
Swift,
Todd,
Traverse,
Waseca,
Watowan,
Yellow Medicine.

GROUP 3.

Aitkin,
Becker,
Beltrami,
Carlton,
Cass,

Chisago,
Clay,
Cook,
Hubbard,
Isanti,

Itasca,
Kanabec,
Kittson,
Lake,
Marshall,

Millelacs,
Norman,
Ottertail,
Pine,

Polk,
St. Louis,
Wadena,
Wilkin.

MISSISSIPPI.

GROUP 1.

Hancock,

Harrison,

Jackson.

GROUP 2.

Alcorn,
Amite,
Attala,
Benton,
Calhoun,
Carroll,
Chickasaw,
Choctaw,
Clarke,
Clay,
Copiah,

Covington,
Franklin,
Greene,
Grenada,
Hinds,
Holmes,
Itawamba,
Jasper,
Jones,
Kemper,
Lafayette,

Lauderdale,
Lawrence,
Leake,
Lee,
Lincoln,
Lowndes,
Madison,
Marion,
Marshall,
Monroe,
Montgomery,

Neshoba,
Newton,
Noxubee,
Oktibbeha,
Panola,
Pearl River,
Perry,
Pike,
Pontotoc,
Prentiss,
Rankin,

Scott,
Simpson,
Smith,
Tate,
Tippah,
Tishomingo,
Union,
Wayne,
Webster,
Winston,
Yalobusha.

GROUP 3.

Adams,
Bolivar,
Claiborne,
Coahoma,

De Soto,
Issaquena,
Jefferson,
Leflore,

Quitman,
Sharkey,
Sundflower,

Tallahatchie,
Tunica,
Warren,

Washington,
Wilkinson,
Yazoo.

VITAL AND SOCIAL STATISTICS.

MISSOURI.

GROUP 1.

Bollinger, Capo Girardeau, Clark, Dunklin,	Jefferson, Lewis, Lincoln, Marion,	Mississippi, New Madrid, Pemiscot, Perry,	Pike, Ralls, St. Charles, Ste. Genevieve,	St. Louis, St. Louis city, Scott, Stoddard.
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GROUP 2.

Barry, Barton, Bates, Benton, Butler, Camden, Carter, Cass, Cedar, Christian,	Crawford, Dade, Dallas, Dent, Douglas, Greene, Henry, Hickory, Howell, Iron,	Jasper, Johnson, Laclede, Lawrence, McDonald, Madison, Maries, Miller, Morgan, Newton,	Oregon, Ozark, Pettis, Phelps, Polk, Pulaski, Reynolds, Ripley, St. Clair, St. Francois,	Shannon, Stone, Taney, Texas, Vernon, Washington, Wayne, Webster, Wright.
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GROUP 3.

Adair, Andrain, Caldwell, Clinton, Davies,	Dekalb, Gentry, Grundy, Harrison, Knox,	Linn, Livingston, Macon, Mercer, Monroe,	Nodaway, Putnam, Randolph, Schuyler,	Scotland, Shelby, Sullivan, Worth.
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GROUP 4.

Andrew, Atchison, Boone, Buchanan, Callaway,	Carroll, Chariton, Clay, Cole, Cooper,	Franklin, Gasconade, Holt, Howard, Jackson,	Lafayette, Moniteau, Montgomery, Osage,	Platte, Ray, Saline, Warren.
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MONTANA.

GROUP 1.

Custer,	Dawson,	Park,	Yellowstone.
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GROUP 2.

Beaverhead, Cascade, Choteau,	Deerlodge, Fergus, Gallatin,	Jefferson, Lewis and Clarke,	Madison, Meagher,	Missoula, Silverbow.
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NEBRASKA.

GROUP 1.

Adams, Antelope, Boone, Buffalo, Butler, Clay, Colfax, Cuming, Dodge,	Fillmore, Franklin, Furnas, Gage, Gosper, Greeley, Hall, Hamilton, Harlan,	Howard, Jefferson, Johnson, Kearney, Lancaster, Madison, Merriek, Nance,	Nuckolls, Pawnee, Phelps, Pierce, Platte, Polk, Saline, Saunders,	Seward, Sherman, Stanton, Thayer, Valley, Wayne, Webster, York.
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GROUP 2.

Burt, Cass, Cedar.	Dakota, Dixon, Douglas,	Knox, Nemaha, Otoe,	Richardson, Sarpy,	Thurston, Washington.
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DESCRIPTION OF AREAS.

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NEBRASKA—Continued.

GROUP 3.

Arthur,	Cheyenne,	Garfield,	Keyapaha,	Redwillow,
Banner,	Custer,	Grant,	Kimball,	Rock,
Blaine,	Dawes,	Hayes,	Lincoln,	Scotts Bluff,
Boyd,	Dawson,	Hitchcock,	Logan,	Sheridan,
Boxbutte,	Deuel,	Holt,	Loup,	Sioux,
Brown,	Dundy,	Hooker,	McPherson,	Thomas,
Chase,	Frontier,	Keith,	Perkins,	Wheeler.
Cherry,				

NEVADA.

This state forms one group.

NEW HAMPSHIRE.

GROUP 1.

Bellknop,	Hillsboro,	Merrimack,	Rockingham,	Strafford.
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GROUP 2.

Carroll,	Cheshire,	Coos,	Grafton,	Sullivan.
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NEW JERSEY.

GROUP 1.

Atlantic,	Camden,	Essex,	Middlesex,	Salem,
Bergen,	Cape May,	Gloucester,	Monmouth,	Union.
Burlington,	Cumberland,	Hudson,	Ocean,	

GROUP 2.

Hunterdon,	Morris,	Somerset,	Sussex,	Warren.
Mercer,	Passaic,			

NEW MEXICO.

GROUP 1.

Colfax,	Lincoln,	Mora,	San Miguel.
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GROUP 2.

Bernalillo,	Grant,	San Juan,	Sierra,	Taos,
Donna Ana,	Rio Arriba,	Santa Fe,	Socorro,	Valencia.

NEW YORK.

GROUP 1.

Kings,	Queens,	Rockland,	Suffolk,	Westchester.
New York,	Richmond,			

GROUP 2.

Clinton,	Franklin,	Herkimer,	St. Lawrence,	Warren.
Essex,	Hamilton,			

GROUP 3.

Delaware,	Greene,	Orange,	Sullivan,	Ulster.
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GROUP 4.

Chautauqua,	Genesee,	Monroe,	Orleans,	Wayne.
Erie,	Jefferson,	Niagara,	Oswego,	

VITAL AND SOCIAL STATISTICS.

NEW YORK—Continued.

GROUP 5.

Albany,
Allegany,
Broome,
Cattaraugus,
Cayuga,
Chemung,
Chenango,

Columbia,
Cortland,
Dutchess,
Fulton,
Lewis,
Livingston,
Madison,

Montgomery,
Oneida,
Onondaga,
Ontario,
Otsego,
Putnam,

Rensselaer,
Saratoga,
Schenectady,
Scholarie,
Schuyler,
Seneca,

Steuben,
Tioga,
Tompkins,
Washington,
Wyoming,
Yates.

NORTH CAROLINA.

GROUP 1.

Beaufort,
Bertie,
Bladen,
Brunswick,
Camden,
Carteret,
Chowan,

Columbus,
Craven,
Cumberland,
Currituck,
Dare,
Duplin,
Gates,

Greene,
Hertford,
Hyde,
Jones,
Lenoir,
Martin,

New Hanover,
Onslow,
Pamlico,
Pasquotank,
Pender,
Perquimans,

Pitt,
Robeson,
Sampson,
Tyrrell,
Washington,
Wayno.

GROUP 2.

Alamance,
Anson,
Cabarrus,
Caswell,
Catawba,
Chatham,
Cleveland,
Davidson,

Davie,
Durham,
Edgecombe,
Forsyth,
Franklin,
Gaston,
Granville,
Guilford,

Halifax,
Harnett,
Iredell,
Johnston,
Lincoln,
Mecklenburg,
Montgomery,
Moore,

Nash,
Northampton,
Orange,
Person,
Randolph,
Richmond,
Rockingham,
Rowan,

Stanly,
Stokes,
Union,
Vance,
Wake,
Warren,
Wilson,
Yadkin.

GROUP 3.

Alexander,
Alleghany,
Ashe,
Buncombe,
Burke,

Caldwell,
Cherokee,
Clay,
Graham,
Haywood,

Henderson,
Jackson,
McDowell,
Madison,
Macon,

Mitchell,
Polk,
Rutherford,
Surry,
Swain,

Transylvania,
Watauga,
Wilkes,
Yancey.

NORTH DAKOTA.

GROUP 1.

Barnes,
Benson,
Bottineau,
Cass,
Cavalier,
Church,
Dickey,

Eddy,
Foster,
Grand Forks,
Griggs,
Kidder,
Lamoure,
Logan,

McHenry,
McIntosh,
Nelson,
Pembina,
Pierce,
Ramsey,
Ransom,

Renville,
Richland,
Rolette,
Sargent,
Sheridan,
Steele,

Stutsman,
Towner,
Traill,
Walsh,
Ward,
Wells.

GROUP 2.

Alred,
Boreman,
Buford,
Burleigh,

Dunn,
Emmons,
Flannery,
Garfield,

McKenzie,
McLean,
Mercer,

Morton,
Mountraille,
Oliver,

Stevens,
Wallace,
Williams,

GROUP 3.

Billings,

Bowman,

Hettinger,

Stark.

DESCRIPTION OF AREAS.

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OHIO.

GROUP 1.

Ashtabula, Cuyahoga,	Eric, Geauga,	Lake, Lorain,	Lucas, Ottawa,	Sandusky, Wood.
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GROUP 2

Adams, Athens, Belmont, Brown, Butler, Clermont, Clinton,	Fairfield, Fayette, Gallia, Greene, Hamilton, Highland,	Hocking, Jackson, Jefferson, Lawrence, Meigs, Monroe,	Montgomery, Morgan, Noble, Perry, Pickaway, Pike,	Preble, Ross, Scioto, Vinton, Warren, Washington.
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GROUP 3.

Allen, Ashland, Auglaize, Carroll, Champaign, Clark, Columbiana, Coshocton, Crawford, Darke,	Defiance, Delaware, Franklin, Fulton, Guernsey, Hancock, Hardin, Harrison, Henry, Holmes,	Huron, Knox, Licking, Logan, Madison, Mahoning, Marion, Medina, Mercer,	Miami, Morrow, Muskingum, Paulding, Portage, Putnam, Richland, Seneca, Shelby,	Stark, Summit, Trumbull, Tuscarawas, Union, Van Wert, Wayne, Williams, Wyandot.
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OKLAHOMA TERRITORY.

This territory forms one group

OREGON.

GROUP 1.

Baker, Crook, Gilliam,	Grant, Harney, Klamath,	Lake, Malheur, Morrow,	Sherman, Umatilla, Union,	Wallowa, Wasco.
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GROUP 2

Benton, Clackamas, Clatsop, Columbia,	Coos, Curry, Douglas, Jackson,	Josephine, Lane, Linn,	Marion, Multnomah, Polk,	Tillamook, Washington, Yamhill.
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PENNSYLVANIA.

GROUP 1.

Adams, Bedford, Blair, Bradford, Cambria, Cameron, Carbon, Center,	Clearfield, Clinton, Columbia, Cumberland, Dauphin, Fayette, Franklin, Fulton,	Huntingdon, Indiana, Juniata, Lackawanna, Lebanon, Luzerne, Lycoming, Mifflin,	Monroe, Montour, Northumberland, Perry, Pike, Schuylkill, Snyder, Somerset,	Sullivan, Susquehanna, Tioga, Union, Wayne, Westmoreland, Wyoming.
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GROUP 2.

Allegheny, Armstrong, Beaver, Berks, Bucks, Butler,	Chester, Clarion, Crawford, Delaware, Elk, Erie,	Forest, Greene, Jefferson, Lancaster, Lawrence, Lehigh,	McKean, Mercer, Montgomery, Northampton, Philadelphia,	Potter, Venango, Warren, Washington, York.
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RHODE ISLAND.

This state forms one group.

VITAL AND SOCIAL STATISTICS.

SOUTH CAROLINA.

GROUP 1.

Beaufort,
Berkeley,
Charleston,

Clarendon,
Colleton,

Florence,
Georgetown,

Hampton,
Horry,

Marion,
Williamsburg.

GROUP 2.

Oconee,

Pickens.

GROUP 3.

Abbeville,
Aiken,
Anderson,
Barnwell,
Chester,

Chesterfield,
Darlington,
Edgefield,
Fairfield,
Greenville,

Kershaw,
Lancaster,
Laurens,
Lexington,

Marlboro,
Newberry,
Orangeburg,
Richland,

Spartanburg,
Sumter,
Union,
York.

SOUTH DAKOTA.

GROUP 1.

Aurora,
Beadle,
Brookings,
Brown,
Clark,
Codington,
Davison,

Day,
Deuel,
Douglas,
Edmunds,
Faulk,
Grant,

Hamlin,
Hand,
Hanson,
Hutchinson,
Jerauld,
Kingsbury,

Lake,
Lincoln,
McCook,
McPherson,
Marshall,
Miner,

Minnehaha,
Moody,
Roberts,
Sanborn,
Spink,
Turner.

GROUP 2.

Bonhomme,
Borreau,
Brule,
Buffalo,
Campbell,

Charles Mix,
Clay,
Dewey,
Gregory,
Hughes,

Hyde,
Lyman,
Potter,
Presho,

Pyatt,
Schnasse,
Stanley,
Sully,

Todd,
Union,
Walworth,
Yankton.

GROUP 3.

Butte,
Choteau,
Custer,
DeLano,
Ewing,

Fall River,
Harding,
Jackson,
Lawrence,
Lugenbeel,

Martin,
Meade,
Meyer,
Nowlin,
Pennington,

Pratt,
Rinehart,
Scobey,
Shannon,
Sterling,

Tripp,
Wagner,
Washabough,
Washington,
Ziobach.

TENNESSEE.

GROUP 1.

Anderson,
Bledsoe,
Blount,
Bradley,
Campbell,
Carter,
Chaliborne,
Cocke,
Coffee,
Cumberland,

Dekalb,
Fentress,
Franklin,
Grainger,
Greene,
Grundy,
Hamblen,
Hamilton,
Hancock,
Hawkins,

James,
Jefferson,
Johnson,
Knox,
London,
McMinn,
Marion,
Meigs,
Monroe,

Moore,
Morgan,
Overton,
Pickett,
Polk,
Putnam,
Rhea,
Roane,
Scott,

Sequatchie,
Sovier,
Sullivan,
Unicoi,
Union,
Van Buren,
Warren,
Washington,
White.

GROUP 2.

Benton,
Carroll,
Chester,

Crockett,
Decatur,
Fayette,

Gibson,
Hardeman,
Haywood,

Henderson,
Henry,
McNairy,

Madison,
Weakley.

GROUP 3.

Dyer,
Lake,

Lauderdale,

Obion,

Shelby,

Tipton.

DESCRIPTION OF AREAS.

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TENNESSEE—Continued.

GROUP 4.

Bedford,	Giles,	Lawrence,	Montgomery,	Sumner,
Cannon,	Hardin,	Lewis,	Perry,	Trousdale,
Cheatam,	Hickman,	Lincoln,	Robertson,	Wayne,
Clay,	Houston,	Macon,	Rutherford,	Williamson,
Davidson,	Humphreys,	Marshall,	Smith,	Wilson.
Dickson,	Jackson,	Maury,	Stewart,	

TEXAS.

GROUP 1.

Aransas,	Chambers,	Harris,	Liberty,	Refugio,
Bee,	Fert Bend,	Hidalgo,	Matagorda,	San Patricio,
Brazoria,	Galveston,	Jackson,	Newton,	Victoria,
Calhoun,	Goliad,	Jasper,	Nueces,	Wharton.
Cameron,	Hardin,	Jefferson,	Orange,	

GROUP 2.

Anderson,	Coryell,	Hays,	McMullen,	San Saba,
Angelina,	Dallas,	Henderson,	Madison,	Shelby,
Archer,	Delta,	Hill,	Marion,	Smith,
Atascosa,	Denton,	Hood,	Mason,	Somervell,
Austin,	Dewitt,	Hopkins,	Maverick,	Starr,
Bandera,	Dimmit,	Houston,	Medina,	Stephens,
Bastrop,	Duval,	Hunt,	Menard,	Tarrant,
Bell,	Eastland,	Jack,	Milam,	Titus,
Bexar,	Edwards,	Johnson,	Mills,	Travis,
Blanco,	Ellis,	Karnes,	Montague,	Trinity,
Bosque,	Encinal,	Kaufman,	Montgomery,	Tyler,
Bowie,	Erath,	Kendall,	Morris,	Upshur,
Brazos,	Falls,	Kerr,	Nacogdoches,	Uvalde,
Brown,	Fannin,	Kimble,	Navarro,	Van Zandt,
Burleson,	Fayette,	Kinney,	Palo Pinto,	Walker,
Burnet,	Franklin,	Lamar,	Panola,	Waller,
Caldwell,	Freestone,	Lampasas,	Parker,	Washington,
Camp,	Frio,	Lasalle,	Polk,	Webb,
Cass,	Gillespie,	Lavaca,	Rains,	Wichita,
Cherokee,	Gonzales,	Lee,	Red River,	Williamson,
Clay,	Grayson,	Leon,	Robertson,	Wilson,
Collin,	Gregg,	Limestone,	Rockwall,	Wise,
Colorado,	Grimes,	Live Oak,	Rusk,	Wood,
Comal,	Guadalupe,	Llano,	Sabine,	Young,
Comanche,	Hamilton,	McCulloch,	San Augustine,	Zapata,
Cooke,	Harrison,	McLennan,	San Jacinto,	Zavalla.

GROUP 3.

Andrews,	Crane,	Hall,	Lubbock,	Schleicher,
Armstrong,	Crockett,	Hansford,	Lynn,	Scurry,
Bailey,	Crosby,	Hardeman,	Martin,	Shackelford,
Baylor,	Dallam,	Hartley,	Midland,	Sherman,
Borden,	Dawson,	Haskell,	Mitchell,	Stonewall,
Brewster,	Deaf Smith,	Hemphill,	Moore,	Sutton,
Briscoe,	Dickens,	Hockley,	Motley,	Swisher,
Buchel,	Donley,	Howard,	Nolan,	Taylor,
Callahan,	Ector,	Hutchinson,	Ochiltree,	Terry,
Carson,	El Paso,	Irion,	Oldham,	Throckmorton,
Castro,	Fisher,	Jeff Davis,	Parmer,	Tom Green,
Childress,	Floyd,	Jones,	Pecos,	Upton,
Cochran,	Foley,	Kent,	Potter,	Valverde,
Coke,	Gaines,	King,	Presidio,	Ward,
Coleman,	Garza,	Knox,	Randall,	Wheeler,
Collingsworth,	Glasscock,	Lamb,	Reeves,	Wilbarger,
Concho,	Gray,	Lipscomb,	Roberts,	Winkler,
Cottle,	Hale,	Loving,	Runnels,	Yoakum.

VITAL AND SOCIAL STATISTICS.

UTAH.

This territory forms one group.

VERMONT.

This state forms one group.

VIRGINIA.

GROUP 1.

Accomac,
Charles City,
Elizabeth City,
Essex,
Gloucester,
Isle of Wight,

James City,
King and Queen,
King George,
King William,
Lancaster,
Mathews,

Middlesex,
Nansemond,
New Kent,
Norfolk,
Northampton,

Northumberland,
Prince George,
Princess Anne,
Richmond,
Southampton,

Surry,
Sussex,
Warwick,
Westmoreland,
York.

GROUP 2.

Alexandria,
Amelia,
Appomattox,
Brunswick,
Buckingham,
Campbell,
Caroline,

Charlotte,
Chesterfield,
Culpeper,
Cumberland,
Dinwiddie,
Fairfax,
Fauquier,

Fluvanna,
Goochland,
Greensville,
Halifax,
Hanover,
Henrico,
Henry,

Loudoun,
Louisa,
Lunenburg,
Mecklenburg,
Nottoway,
Orange,
Petersburg City,

Pittsylvania,
Powhatan,
Prince Edward,
Prince William,
Spottsylvania,
Stafford.

GROUP 3.

Albemarle,
Alleghany,
Amherst,
Augusta,
Bath,
Bedford,
Bland,
Botetourt,

Buchanan,
Carroll,
Clarke,
Craig,
Dickenson,
Floyd,
Franklin,
Frederick,

Giles,
Grayson,
Greene,
Highland,
Lee,
Madison,
Montgomery,
Nelson,

Page,
Patrick,
Pulaski,
Rappahannock,
Roanoke,
Rockbridge,
Rockingham,
Russell,

Scott,
Shenandoah,
Smyth,
Tazewell,
Warren,
Washington,
Wise,
Wythe.

WASHINGTON.

GROUP 1.

Adams,
Asotin,
Columbia,

Douglas,
Franklin,
Garfield,

Kittitas,
Klickitat,
Lincoln,

Okanogan,
Spokane,
Stevens,

Wallawalla,
Whitman,
Yakima.

GROUP 2.

Chehalis,
Clallam,
Clarke,
Cowlitz,

Island,
Jefferson,
King,
Kitsap,

Lewis,
Mason,
Pacific,
Pierce,

San Juan,
Skagit,
Skamania,
Snohomish,

Thurston,
Wahkiakum,
Whatcom.

WEST VIRGINIA.

GROUP 1.

Barbour,
Berkeley,
Boone,
Braxton,
Clay,
Fayette,
Grant,

Greenbrier,
Hampshire,
Hardy,
Harrison,
Jefferson,
Lewis,
Logan,

McDowell,
Marion,
Mercer,
Mineral,
Monongalia,
Monroe,
Morgan,

Nicholas,
Pendleton,
Pocahontas,
Preston,
Raleigh,
Randolph,

Summers,
Taylor,
Tucker,
Upshur,
Webster,
Wyoming.

GROUP 2.

Brooke,
Cabell,
Calhoun,
Doddridge,
Gilmer,

Hancock,
Jackson,
Kanawha,
Lincoln,

Marshall,
Mason,
Ohio,
Pleasants,

Putnam,
Ritchie,
Roane,
Tyler,

Wayne,
Wetzel,
Wirt,
Wood.

DESCRIPTION OF AREAS.

511

WISCONSIN.

GROUP 1.

Brown,
Deer,

Kenosha,
Kewaunee,

Manitowoc,
Milwaukee,

Ozaukee,
Racine,

Sheboygan.

GROUP 2.

Buffalo,
Crawford,

Grant,
Lacrosse,

Pepin,
Pierce,

St. Croix,
Trempealeau,

Vernon.

GROUP 3.

Adams,
Calumet,
Columbia,
Dane,
Dodgo,

Fond du Lac,
Green,
Green Lake,
Iowa,
Jefferson,

Juneau,
Lafayette,
Marquette,
Monroe,

Richland,
Rock,
Sauk,
Walworth,

Washington,
Waukesha,
Waushara,
Winnebago.

GROUP 4.

Ashland,
Barron,
Bayfield,
Burnett,
Chippewa,
Clark,

Douglas,
Dunn,
Eau Claire,
Florence,
Forest,
Jackson,

Langlade,
Lincoln,
Marathon,
Marinette,
Oconto,
Oneida,

Outagamie,
Polk,
Portage,
Price,
Sawyer,

Shawano,
Taylor,
Washburn,
Waupaca,
Wood.

WYOMING.

GROUP 1.

Laramie.

GROUP 2.

Albany,
Carbon,

Crook,
Fremont,

Johnson,
Natrona,

Sheridan,
Sweetwater,

Uinta,
Weston.